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June 23, 1965.

To Members of the Joint Economic Committee:

Transmitted herewith for the use of the Joint Economic Committee and other Members of Congress is a compilation of statistical materials and interpretative articles entitled "Current Economic Indicators for the U.S.S.R." These materials will make up a successor volume to last year's study on the same subject. They are made available to the members of the Joint Economic Committee as a continuation of the studies which appeared in December 1962 under the title "Dimensions of Soviet Economic Power."

The committee is grateful to the Government departments and organizations for their assistance, as well as to the individual scholars who prepared various sections of this volume, and to the Research Analysis Corp. for permitting its staff members to help us in the study.

It should be clearly understood that the materials contained herein do not necessarily represent the views of the committee nor any of its individual members.

WRIGHT PATMAN, Chairman.

June 21, 1965.

Hon. Wright Patman, Chairman, Joint Economic Committee, Congress of the United States, Washington, D.C.

DEAR MR. CHAIRMAN: Transmitted herewith is a compendium of statistical data and interpretative comment entitled, "Current Economic Indicators for the U.S.S.R."

This volume, which is a successor to the report on the same subject published in February 1964, reflects the committee's continuing interest in verifiable facts and scholarly interpretation of current economic developments in the U.S.S.R. These periodic statistical reviews, in turn, are intended to supplement the analytical materials published in the Joint Economic Committee's December 1962 study entitled, "Dimensions of Soviet Economic Power."

In light of our experience in publishing the 1964 volume, certain changes have been made in the present study, particularly in regard to the introduction of more narrative materials to go along with the statistical data presented in each chapter. In addition, the present volume includes an introductory essay summarizing the main findings of the component chapters.

The individual chapters of the present study were prepared for the committee by a number of professional experts in this field of research who have given generously of their valuable time and specialized

ΙΙ

Approved For Release 2002/04/01: CIA-RDP79T01049A003000150001-1 **IV** LETTERS OF TRANSMITTAL**

knowledge. The committee is indebted in particular to the following individual contributors for the praiseworthy job, they have done:

James W. Brackett. Stanley G. Brown. Stanley H. Cohn. Norton T. Dodge. Murray Feshbach. Ferdinand F. Pirhalla. Seymour M. Rosen. Timothy Sosnovy. Joseph Watstein.

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The present study was planned and coordinated by Leon M. Herman, senior specialist, Soviet economics, Legislative Reference Service, Library of Congress, to whom the committee feels particularly indebted for the high standards and patience he has brought to the present undertaking.

The initial work on behalf of the committee staff was handled by William H. Moore, senior economist, and the subsequent supervision of the completion and editing of the volume was handled by John R. Stark, deputy director.

JAMES W. KNOWLES, Executive Director, Joint Economic Committee.

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INTRODUCTION THE SOVIET ECONOMY IN 1963

A. SLOWDOWN IN THE RATE OF ECONOMIC GROWTH

1. GROSS NATIONAL PRODUCT

The performance of the Soviet economy during 1963 was marked by a sharp decline in the overall rate of growth, a decline that was manifestly induced by the absolute drop in the output of the agriculmanifesty induced by the absolute drop in the output of the agricultural sector. The gross national product of the country; i.e., the indicator which measures the aggregate value of all goods and services, increased somewhat in 1963, but the advance amounted to an abnormally low rate of 2.6 percent, the lowest percentage of growth in recent Soviet history. Five years earlier, in 1958, the annual growth rate of the Soviet Union was 8.5 percent.

rate of the Soviet Union was 8.5 percent.

In terms of average rates of growth, as indicated in detail in chapter I of the present study, the U.S.S.R. has recently slipped from the second highest position among the leading industrial nations, after West Germany, to the fifth position, below that of France. More recently, since 1961, in fact, the Soviet Union has fallen behind the United States, as far as annual growth rates are concerned.

In dollar terms, the aggregate value of goods and services produced in the U.S.S.R. in 1963 has been calculated in the present study (in 1963 market prices) at \$265 billion, an amount equal to 46 percent of the gross national product of the United States. In regard to its overall output, in other words, the U.S.S.R. continues to hold its position as the second largest economy in the world. In per capita terms, however, its comparative position in 1963 was considerably lower; namely, just barely ahead of Italy, as shown below:

Comparative per capita dollar value of GNP, 1963

[In 1963 market prices]	3, 084
In 1963 market prices] United States France Germany (German Federal Republic) United Kingdom	1, 964 1, 858
Jnited Kingdom	1, 803 1, 178
talyapan	1, 107 907

2. INVESTMENT TRENDS

The steady decline in the tempo of economic expansion in the U.S.S.R. during the past 5 years may be traced, in large part, to a sharp drop in the rate of growth in the allocation of new capital investment. As measured by the broad indicator of "fixed investment," the annual rate of growth of new capital investment had been

proceeding at an average of 10.8 percent during 1951-58. However, in the course of the subsequent 5-year period (1959-63) new capital was plowed into the economy at an incremental rate of 7.1 percent per annum. Moreover, for the most recent period, 1961-63, the investment effort slackened off still further, showing an annual average growth rate of only 4.7 percent; 6.7 percent if new housing is excluded

growth rate of only 4.7 percent; 6.7 percent if new housing is excluded. In regard to investment, too, the year 1961 was something of a turning point in the recent economic history of the U.S.S.R. In that year, as shown in considerable detail in chapter IV of our study, a sharp decline began to manifest itself in the rate of growth of new construction activity which remained almost unchanged during the following 2 years. By comparison, it should be noted, the volume of construction grew at an annual rate of nearly 14 percent during 1956-60.

One major factor responsible for the low growth rates in industrial investment since 1961 has been the dislocation resulting from the recent well-publicized effort on the part of the political authorities to carry out a major shift in the industrial structure in favor of such "progressive," growth-inducing branches as the chemical, petrochemical, and electronics industries. Beyond that, however, the lower trends in investment growth of the past few years reflect the diversion of resources to other programs, including various research-intensive equipment, for the military establishment and for space exploration.

3. AGRICULTURE

The year 1963 also witnessed a serious depression in the level of agricultural output in the country. Grains were affected most adversely by a widespread incidence of dry weather, with the result that only 89.3 million metric tons of grain were harvested in 1963, as compared with 112 million tons produced in 1962. Wheat production, in particular, declined by 26.5 percent from the level of the preceding year.

In terms of yield, too, the Soviet farm economy performed poorly in 1963. In wheat, for example, the yield per acre amounted to 9.2 bushels, which is equal to 36 percent of the amount of grain produced per acre during the year in the United States; namely, 25.3 bushels.

The level of production of livestock commodities moved somewhat erratically in 1963. Owing to a severe shortage of feed, which induced distress slaughtering, meat went up slightly, while the output of milk and eggs moved downward at a moderate pace. In comparison with the level of output in the United States, production of the above four major livestock commodities showed the following proportions in 1963; pork, 56 percent; beef and veal, 40 percent; milk (cows), 92 percent; eggs, 45 percent.

4. INDUSTRIAL PRODUCTION

The industrial sector of the Soviet economy also witnessed a notable decline in growth during the year 1963. Civilian production increased by 6.6 percent over the preceding year, the smallest increase of the postwar period. This marks the fourth consecutive year of annual rates of expansion of less than 8 percent. By comparison, as shown by the data below, the average annual increase in industrial output during the fifties was about 10 percent.

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Annual rates of growth of civilian industrial output in the U.S.S.R.

	1956-59 average	1960-63 average
Total industry	9.7 9.6 12.4 7.4	7. 0 6. 1 11. 5 3. 9

The pattern of growth in recent years, as may be expected, has been fairly uneven. By viewing developments over the two most recent 4-year periods it is possible to observe that the officially favored branches of industry continue to be maintained more or less in the style of growth to which they had become accustomed over the decades. Accordingly, the average annual rate of increase declined from one 4-year period to the other, as illustrated above, by nearly a half for nondurable consumer goods, while industrial materials lost about a third of its earlier growth rate. In the category of machinery and electronics, by contrast, the decide in the rate of growth during the

There are several factors that help to account for the slowdown in the rate of industrial growth in the Soviet Union after 1959. To begin with, as explained more fully in the chapters dealing with investment and industry, there has been a sharp decline in industrial investment. Apart from that, there has been a shift in the allocation pattern of new capital, a shift that has involved the assimilation of unfamiliar new technology. Lowered levels of output in agriculture have also played a part in the reduced expansion of industry by shrinking the available supply of industrial raw materials. Another negative effect may be traced to the reduction in the length of the average workweek from 46 hours in 1959 to 41 in 1961. In addition to the above, industrial developments have been affected adversely by the preemption of high quality resources by the military sector, at the expense of investment of new plant and equipment for civilian industry.

5. DEFENSE EXPENDITURES

As has often been the case in the past, the sharp decline in the rate of increase in capital investment in the U.S.S.R., underway since 1960, has been accompanied by a conspicuous rise in defense expenditures. These two categories of expenditures have always been competing elaimants upon the resources of the domestic economy. Judging by the evidence at hand, Soviet authorities have chosen to favor the defense sector in recent years. This is indicated by the fact that explicit defense outlays have risen by more than 10.5 percent per year between 1960 and 1963, from 9.3 to 13.3 billion rubles. In contrast, investment has grown at a rate of only 4.7 percent during the same 3-year period.

In recent months, the question has often been raised in public print as to whether the new leadership, which came to power in the Soviet Union in October 1964, is likely to reduce military spending in order to provide for a better supply of agricultural products and consumer goods in the domestic economy. The fact most responsible for this line of speculation has been the recent announcement by Party Chieftain Brezhnev that the Soviet Government will spend

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\$79 billion on the improvement of the agricultural economy during

the next 5-year plan (1966-70).

While the Soviet leaders have understandably avoided making any direct commitment on so sensitive a subject as the pattern of resource allocation, they have, since their accession to power, assured the public that agriculture would be treated more generously than it

had been in the past.

It does not necessarily follow, however, that an increase in the allocation of more capital to agriculture would make it necessary for the Soviet authorities to cut back on their defense expenditures. A close analysis of the new agricultural plan for 1966-70, as presented by L. Brezhnev to the Central Committee on March 24, 1964, points to the conclusion that the rulers of the U.S.S.R. can continue their present intense effort in the sphere of military and space research and development, as well as in the expansion and deployment of advanced weapons system, without serious concern over the possible adverse impact of this effort on the agricultural economy. The kind of resources that are required to inject a higher level of productivity into agriculture, e.g., tractors, trucks, farm machinery, construction equipment, etc., no longer play a critical role in the modern defense industry. If anything, a large diversion of production inputs of this kind into agriculture would tend to impose a serious burden on the conventional branches of heavy industry, i.e., the branches which conventional branches of heavy industry, i.e., the branches which are both producers and consumers of this kind of mass-produced equipment. Modern weapon systems, on the other hand, depend more for their support and expansion upon the newer industries equipped especially to produce electronics, automatic mechanisms, precision instruments, and hand-tooled missiles of various kinds. They require, in addition, highly trained scientists, design engineers, and unusually skilled technicians of the kind that would not be, in the foreseeable future, conceivably transferred to jobs in the mass production lines of the farm machinery and automotive industries.

6. CONSUMPTION LEVELS

It is important to bear in mind, however, that the absolute volume of new investment continues to be very high in the U.S.S.R. Only the rates of new increments in annual capital allocations have declined of late. In 1963, for example, the aggregate figure for new investment in the U.S.S.R., amounted to 42.2 billion rubles, an enormous sum that is fully equal, in dollars, to the amount allocated to investment in the United States, although total consumption in the Soviet economy is equal to only one-third of the value of goods and services consumed in this country. Inevitably, therefore, the large outlays which the Soviet Government makes annually on investment and defense reduces severely the fund of resources available for consumption by the population.

As compared with its own past, to be sure, per capita consumption in the U.S.S.R. has increased substantially in recent years. In 1963, for example, it had reached a level equal to 70 percent above that of 1950. This reflects an average increase of about 4 percent a year. In comparison with the major Western nations, however, the U.S.S.R. has failed to make any dramatic progress within the past

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dozen years. Thus, for example, in 1963 per capita consumption in the U.S.S.R. amounted to less than 90 percent of that in Italy. In respect to this important indicator, in other words, its position

relative to Italy remained the same as it was in 1950.

In comparison with the United States, too, the recent Soviet record in per capita consumption has made little tangible relative progress. True, in 1963 Soviet per capita consumption reached a level equal to about 30 percent of that in the United States, whereas in 1950 it amounted to some 20 percent of our level. However, most of the gain made by the U.S.S.R., relative to the United States level, was achieved by 1958. Since then, consumption per capita has grown at about the same rate in both countries.

Apart from the difference in the aggregate volume of consumption, as shown in the relevant chapter, there are a number of important

differences in the pattern of consumption in the two countries.

To cite one prominent difference: The share of starchy staples (grain products and potatoes) continues to be distinctively large in the U.S.S.R. It was larger in fact in the Soviet Union in 1962 than in the United States more than a half century ago. In addition, as shown in some detail in section VIII of this report, consumption of food per capita in the U.S.S.R. remains unusually high relative to other capita in the U.S.S.K. remains unusually high relative to other consumer goods to this day, reflecting a familiar social phenomenon; namely, that in a country with a low level of earnings a large proportion of the personal income of the population is devoted to food expenditures. By comparison, nonfood products and personal services absorb a smaller share of the consumer ruble. In fact, per capita consumption in 1963 of most of these items in the U.S.S.R. amounted to little more than 15 percent of that in the United States amounted to little more than 15 percent of that in the United States.

Estimated stocks of consumer's durables at end of 1963

[Units per 1,000 persons]

,	U.S.S.R.	United States	U.S.S.R. as percent of United States
Sewing machines	132	135	98-
	190	974	20
	53	318	17
	4	272	1
	23	288	8
	36	216	17

Another distinctive feature of the Soviet pattern of consumption is the high level of consumption of state-provided services such as health and education. Their high priority in the allocation pattern reflects the fact that such services are regarded by the Soviet Government as falling under the heading of investment rather than consumption.

In housing, the improvements in the level of available space, relative to population, has slowed down in recent years. New additions of urban dwelling space in 1963 amounted to 77.4 million square meters, as against 82.8 in 1960. By way of comparison living space per centre.

as against 82.8 in 1960. By way of comparison, living space per capita in the U.S.S.R. in 1963 amounted to approximately 20 percent of that available in the United States. In this respect, there was no measurable improvement since 1950.

7. POPULATION, EMPLOYMENT AND LABOR PRODUCTIVITY

Because of the severe wartime losses in population, actual as well as potential, the Soviet Union has also had to contend with a less favorable manpower situation in recent years. In 1963, employment outside of agriculture increased by 2 million persons, as compared with the addition of 4.2 million nonfarm wage earners made in 1961. As far as the growth of the labor force as a whole is concerned, the rate of new additions has declined as follows: from an average rate of 1.9 percent for the period 1950-58 to an average of 1.4 percent during the next 5 years (1958-63).

This downward trend reflects (a) the delayed effect of the low birth rate of the wartime period and (b) the absence of any perceptible slack for raising further still the high labor participation ratio of the Soviet

population, which is already quite high.

Another setback to the Soviet drive for rapid economic growth came in the form of a slowdown in the advancement of labor productivity. In the earlier of the two periods, under review here, Soviet performance in the sphere of labor productivity growth ranked very high, just below that of Germany. Specifically calculated in chapter I of this study, the average rate of growth in Soviet labor productivity measured 5.0 percent per year during 1950-58. During the subsequent 5-year period, however, labor productivity in the U.S.S.R. advanced at a much reduced average rate; namely 3.1 percent. Thus, the deterioration in the growth rate of Soviet productivity performance was the most pronounced among the major conomies compared in this report.

8. FOREIGN TRADE

In its commerce with other nations, the Soviet Union has maintained a fairly steady rate of expansion in recent years. Total trade turnover [exports plus imports] rose by 6 percent in 1963, reaching a level of \$14.3 billion. At that level it was equal to 35 percent of the dollar value of the foreign commerce of the United States. In comparison with the other major trading nations of the world, the U.S.S.R. now ranks fifth in line, behind France and slightly ahead of Canada.

Viewed over the past 10-year period, the annual value of Soviet foreign trade expanded by 150 percent; in part, at least, as a result of (a) the return of the U.S.S.R. to its traditional markets in Western Europe and (b) its more active involvement in commodity exchanges with the newly developing countries. Still, the strong preference for trading with other Communist nations remains in effect. In 1963, as in preceding years, 70 percent of all Soviet trade transactions were completed with trade partners within the Communist world.

B. THE SEARCH FOR HIGHER LEVELS OF ECONOMIC EFFICIENCY

1. DISCONTENT OF THE LEADERSHIP

The loss of economic momentum during the past 3 to 5 years has produced a mood of serious self-examination among policymakers and economic experts alike in the U.S.S.R. By 1962, there was very little left of the buoyant optimism over economic prospects which pervaded official Soviet opinion during the mid-fifties.

Even before the shock of the depressed harvest of 1963 had spread through the society as a whole, Soviet leaders began to voice com-

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plaints about the qualitative and dynamic aspects of their production system. They have complained, in general, about the failure of their planners and managers to make more effective use of the vast array of economic resources at their disposal. They have complained, in particular, about the declining yield in added output from new capital investment; about the all-too-slow growth of labor productivity; about the neglect of modern branches and processes of production; about the general indifference among the nation's plant managers to new, better, and cheaper materials; about the general resistance to innovation at the enterprise level; and about the deep-seated bureaucratic tendency on all levels of operation to rely on established, routine methods of manufacturing and distribution.

In one of his memorable addresses dealing with the problem of economic planning, delivered in November 1962, former Premier Khrushchev gave vent, in great detail, to the long pent-up discontent of the party hierarchy with the level of efficiency in the Soviet economy. He was especially critical of the pervasive lethargy among Soviet planners, administrators, and plant managers with respect to new, more efficient ideas and processes in the country's industrial plant. He was beginning to wonder, he declared, "whether this proves our inability to utilize technical progress."

An important reason for the loss of self-confidence among Soviet economic authorities is the fundamental fact that the economy of the

economic authorities is the fundamental fact that the economy of the U.S.S.R. has been growing bigger but not better. About a decade ago, official Soviet spokesmen were wont to cite as evidence of a considerable potential reserve for their own economic progress the fact that the country's industrial labor force was still well below its optimal size. Now, however, this particular reserve has been exhausted. Industrial employment in the U.S.S.R. is now beyond the proportion once considered optimal by Soviet economists; namely, 8 to 10 percent of the country's total population. In 1963, in fact, Russia's industrial manpower numbered 25 million persons, i.e., a figure larger by 40 percent than the 18 million that make up the industrial labor force of the United States. Yet, even according to their own undocumented their Shriet industry turns out a total approach product that is 25 claim, Soviet industry turns out a total annual product that is 35 percent lower than the aggregate U.S. industrial output.

In short, the continued annual recruitment of ever more new labor numbers into industry does not seem to be sufficient to alter the lagging relative position of the U.S.S.R. as an industrial producer. If anything, the mechanical practice of feeding a maximum of additional labor into the favored branches of production has tended to minimize the pressure for more efficient methods of labor utilization and, therefore, to delay progress in the critical area of labor produc-

These practical difficulties arising from the low efficiency of new capital and labor inputs have generated a widespread discussion among academic economists and economic administrators in the U.S.S.R. aimed at a thoroughgoing reform of existing economic policies and practices. This officially sponsored discussion has been consciously directed toward a search for higher standards of production efficiency. In practical terms, as recently explained by Premier Kosygin in his address of December 9, 1964, to the Supreme Soviet, this discussion is expected to result in the discovery of new ways and means of "obtaining maximum results at minimum expenditure of

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labor and material, based on high labor productivity and a high scientific and technical standard of production." Unless a "substantial change for the better" is achieved in this regard, Kosygin warned, it will be impossible to attain the party's declared goal of "an increase in the rate of growth of the national economy and the channeling of more resources toward raising the well-being of the people."

2. PROSPECTIVE ECONOMIC REFORMS

With the ouster of Khrushchev and the coming to power of the Brezhnev-Kosygin regime, public demand for economic reform in the U.S.S.R., which began in 1962, entered a new, more authoritative phase. The ideas that were presented in 1962 by a once obscure Kharkov professor and subjected at that time to widespread criticism, in the space of 2 years evolved to become the new orthodoxy of the post-Khrushchev Soviet leadership.

"We shall proceed toward planning on the basis of orders placed by consumers not only in industry producing consumer goods but also in other branches of the national economy." With these words, which were also addressed to the Supreme Soviet on December 9, 1964, Premier Kosygin announced the intention of the new Soviet leadership to adopt many of the very un-Marxian ideas that have come since 1962 to be associated with "Libermanism"--after Yevsey G. Liberman, professor of economics at the Kharkov Engineering-Economics Institute.

Liberman's main idea, which was first aired in Pravda in September 1962, affirms that the preparation by the central planners of detailed assignments to be executed without question by the industrial enterassignments to be executed without question by the industrial enterprises tends to hamper rather than help the latter in their basic effort to satisfy the needs of society. He proposed, therefore, that the attainment of maximum profitability—profits divided by total (fixed plus working) capital—rather than the physical fulfillment of specific production tasks assigned by the planners be made the criterion of enterprise performance. Under the operation of the profit incentive, he argued, enterprises could be relied upon to search more effectively for means of improving their economic performance then effectively for means of improving their economic performance than under present bureaucratically determined plans.

Publication of Liberman's proposals raised a storm of discussion in the Soviet press and resulted in the proliferation of many proposals for further reforms. Other reforms proposed included adoption of such capitalist ideas as quasi-markets, with centrally established prices, to distribute output of both consumer and producer goods; overhaul of wholesale prices; interest charges on the use of fixed and

working capital.

Resistance in the U.S.S.R. to the proposals—both ideological and practical—is deep rooted. To a large extent these proposals were hold in abeyance by the Khrushchev leadership. Yet, the proposals are designed to provide solutions to very real economic problems of the U.S.S.R. The present system of management of resources is inefficient and wasteful. Quality of products is poor. Supply is badly organized, which results in the creation of artificial scarcities. New products and new technological processes are introduced only slowly. Planning is grossly conceived, cumbersome, and prone to costly mistakes.

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These problems are not at all new to the leadership of the U.S.S.R., since they have often been the subject of official complaints since the early 1930's. In recent years, however, they have become a matter of urgency to the extent that the rate of growth of the economy has slowed while the range of commitments has been expanding. It is this slowdown that has increased the pressure for better management of economic resources and stimulated the active quest of the new Soviet leadership for economic reform.

Kosygin's statement to the Supreme Soviet calls for the gradual extension in some form of a new production-marketing system based on Liberman's ideas, the testing of which was initiated belatedly in two garment enterprises by the Khrushchev leadership in July 1964. The system provided for the two garment enterprises—Bol'shevichka

The system provided for the two garment enterprises—Bol'shevichka in Moscow and Mayak in Gorki—to determine their own plans for volume, quality, and assortment of production on the basis of orders from the trade network. By the same token, they were freed from the routine of centrally allocated supply of material inputs other than

capital goods.

The enterprises in the experiment are subjected to two performance criteria: first, the volume of output sold must be sufficiently large to make full use of existing production capacity; and second, the centrally established plan for profitability must be fulfilled (or overfulfilled). Decisions as to quality, amounts used, and inventories of inputs, including number of workers employed, as well as the introduction of new processing methods and new products, are left to the enterprise director to be determined on the basis of (a) orders from the trade network and (b) profitability of the work. The new system makes no provision for significant changes in the prices of the plants' products or inputs. Requests for purchases of capital goods and plant expansion continue to be subject to review by central authority. No provision is made for interest charges on fixed or working capital.

On October 20, 1964, shortly after the ouster of Khrushchev, the U.S.S.R. Sovnarkhoz announced that the new system is to be extended to enterprises accounting for one-fourth of the output of garments and footwear during 1965. Moreover, an additional test of the system was scheduled to begin January 1, 1965, in five enterprises in Lvov—including two heavy industry enterprises. Presumably the new system is to be extended, at some later date, to the remaining enterprises producing consumer goods and, eventually, to

heavy industry as well.

Much work remains to be done to make the new system perform its tasks effectively. Well-known defects, such as the continued practice of central allocation of capital goods and the failure to adopt a capital charge, remain within the specific provisions of the new system. The elimination of irrational prices, upon which the system's effectiveness depends, must also be carried out. Moreover, extensive adoption of the system is likely to create difficult problems of integrating the sections using the new system with the remainder of the economy. The outlook for the next few years is for continued proposals, discussions, and controversy along with cautious experimentation with novel and un-Marxian methods of economic decision-making. Hence, no measurable improvement in the efficiency of use of resources, or in the rate of growth of the economy, can be expected from this source during the period.

CHAPTER I

TRENDS IN SOVIET GROSS NATIONAL PRODUCT

SUMMARY

In 1963 Soviet GNP growth continued the declining trend evident since 1958, thus exacerbating the policy dilemma of satisfying proliferating demands on a tightening resource base. The abnormally depressed 2.6-percent increase in 1963 reflected adverse agricultural weather conditions and would have been close to 5 percent under normal circumstances. Shortfalls in agriculture compounded the shift in the production structure from commodities to the services. From 1960 to 1963 both consumption and investment experienced sharply reduced growth rates, while defense expenditures have risen dramatically. However, in 1963 and 1964 defense outlays leveled off and the new regime has reiterated its pledges to the consumer and voiced its desire to move the economy ahead at a more rapid rate.

its desire to move the economy ahead at a more rapid rate.

Growth retardation can be largely explained in terms of reduced percentage increments to the labor force and to sharply reduced labor productivity increases. In the latter respect Soviet performance has been notably poor in comparison with other major economies. Worsened labor productivity performance can be in part initially explained by the reduced rate of investment, but a more important factor has been the sharply reduced rate of return on investment (higher capital-output ratios). In this respect, too, the Soviet record by international comparison has been particularly dismal. In turn, both the reduced rate of investment and its falling efficiency can be ascribed to the longer time required to assimilate the new technologies of chemicals, oil and gas, and complex machinery and to the diversion of vital scarce human and material inputs into production of sophisticated

weapons.

Soviet gross national product is somewhat less than half as large as that of the United States and 2½ times that of the major West European economies, but on a per capita basis about three-eighths as large as the United States and a third less than West Germany, France, or the United Kingdom. The U.S.S.R.-U.S. ratio has not been widened since 1961 and in absolute terms the U.S. margin has been increasing since 1958. Soviet growth through 1970 will probably average between 4.5 and 5.5 percent annually, about a percentage point above the United States, but no higher than France or Italy and much below that of Japan. Given these projections, the absolute GNP differential between the U.S.S.R. and the United States will continue to diverge. With a reduced growth rate the Soviet leadership will face a major challenge in reducing to realistic dimensions the simultaneous pursuit of increases in consumer welfare, rapid growth, and maintenance of military parity with the United States. A desire to minimize this overcommitment from a tightening resource base

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could further stimulate efforts to improve the efficiency of the operation of the economy with consequent far-reaching institutional reforms.

COMPARATIVE GROWTH PERFORMANCE

The basic economic dilemma of limited resources to meet burgeoning requirements, which has plagued Soviet regimes in recent years, was particularly acute in 1963. The new leadership, as indicated by their public pronouncements and the 1965 state budget and plan, has reaffirmed this vexation. Commitments have proliferated beyond the simple Stalinist goals of rapid growth and a powerful conventional military posture to include consumer welfare, growth based on new technology, and parity with the United States in sophisticated weaponry. In contrast, the wherewithal to sustain this expanded array of priorities has worsened, both in terms of basic resource availabilities and of the efficiency with which these resources have been employed.

The long-term decline in the rate of growth of national produce which ensued after 1958 has continued through the present (table I-1).

Table I-1.—Annual and period growth rates of Soviet GNP 1

[Percentages]

Year	Rate	Period	Rate
1958 1959 1960	8, 5 4, 2 4, 9	1950–58 average	7. 0 4. 5
1961 1962 1963	6.8 4.3 2.6		
1903	2, 6		

 $^{^{\}rm I}$ For derivation of component origin sector growth rates see appendix table 1, and for derivation of sector weights see appendix table 2.

Note.—The 1964 estimates published by the Joint Economic Committee showed a considerably lower growth rate for 1962. The revision this year is explained by recalculation of the agricultural production estimate on the basis of more comprehensive information. The higher rate is also influenced by the substitution of 1959 originating sector value added weights (see appendix, table 2) for the 1955 weights used last year. The new weights reduce the weight of agriculture and hence the depressing effect on GNP of the decline in agricultural output.

In no year since 1958 has the Soviet Union matched the annual average growth rate it achieved in the 8 years prior to that date, as indicated in table I-1. In terms of international comparisons it has slipped from a position second only to West Germany among the principal industrial powers in the period 1950-58 to an average below that of Japan, Italy, West Germany, and France during the subsequent 5 years (table I-2). Moreover, since 1961 the U.S.S.R. has also fallen behind the United States in its growth performance.

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Table I-2.—Comparative growth rates of gross national product

erc		

Country	Annual rates					Period rates (annual averages)		
	1958	1959	1960	1961	1962	1963	1950-58	1958-63
U.S.S.R	8. 5 2. 5 3. 5 4. 4 1. 0 1 -1. 2	4. 2 2. 8 7. 1 7. 3 3. 6 18. 3 6. 7	4, 9 7, 3 8, 9 6, 8 4, 5 13, 0 2, 5	6.8 4.3 5.8 8.3 3.3 15.8 1.9	4.3 6.3 4.1 6.0 .2 6.9 6.1	2.6 4.3 3.2 4.8 3.5 8.3 3.4	7. 0 4. 4 7. 6 5. 6 2. 4 6. 1 2. 9	4.5 5.0 5.9 6.6 3.0 12.5 4.1

Sources: United States and Western European economies: OECD, Statistics of National Accounts, 1950-61, Paris, 1964. OECD, General Statistics—National Accounts Supplement, Paris, 1964. Statistical Office of the European Economic Communities, General Statistical Bulletin, No. 11, 1964. National Institute of Economic and Social Research, National Institute Economic Review, November 1964, London. U.S. Department of Commerce, Survey of Current Business, July 1964. United Nations, Monthly Bulletin of Statistics, November 1964, p. 8.

Japan: Bank of Japan. Economic Statistics of Japan, 1961. Ministry of Finance, Quarterly Bulletin of Financial Statistics, 1st quarter, fiscal year 1964.

U.S.S.R.-GNP. (See appendix, table 1.)

The trend of the last 2 years in the later period is below the longterm trend as it has been heavily influenced by 2 years of unfavorable weather. If weather factors are discounted and it is assumed that the agricultural growth trend for 1958-61 would have prevailed under normal conditions, the average annual rise in GNP would have been close to 5 percent.

CHANGE IN STRUCTURE OF PRODUCTION AND THE USE OF RESOURCES-

The reduced pace of expansion has involved significant changes in the structure of the Soviet economy, particularly from primary, but also from secondary to tertiary production. If the 8 years prior to 1958 are contrasted with the 5 years following that year, the commodity producing sectors (primary and secondary) of the economy have exhibited sharp decelerations while the service rendering sectors (tertiary) have experienced higher growth rates (see appendix, table 1). Much of this shift can be explained by the evolution of the Soviet economy to a more advanced level, but it has been compounded by output shortfalls in agriculture with subsequent resource impacts on raw material availabilities to industry.

Agriculture has yet to attain the output level set in 1961, while the growth rate in industry has fallen from an average annual rate of 9 percent for the period 1950-58 to a rate of 7.5 percent since 1958. In construction the rate of increase has been halved as resources have been diverted away from investment and in transportation the rate is considerably less. By contrast the net outputs of the commerce and services sectors have risen at accelerated tempos since 1958. decline in defense ² and constancy in administrative services since 1958 has been more than offset by the rapid increase in educational medical, housing, and especially scientific services. ²

Available computations of official data do not permit so clear a

comparison of trends in the uses of GNP, but some significant changes

² As used in the context of income originating, dofonse services pertain only to personnel expenditures. Other elements of defense expenditure appear in other originating sector categories. Procurement is reflected in industrial production, research and some development in scientific services, and military construction in the construction sector.

are apparent. The retardation in growth has led to lessened increases in levels of consumption, half the rate in the period after 1958 of that experienced in the previous 8 years (table I-3). This decline is largely the result of stagnation in agricultural production with the reduction in the rate of new housing construction contributing in smaller measure. Since 1958 increases in Soviet per capita consumption levels have been considerably below those of the three principal continental economies whose consumers already enjoyed per capita consumption levels nearly twice as high as their Soviet counterparts. In fact, the Soviet rate of improvement has only marginally exceeded that of the United Kingdom and the United States (table I-3) while the level at per capita consumption in the United States remained between three and four times that of the U.S.S.R.

Table I-3.—Comparative growth of consumption and investment

[Average annual rates]

Country	Consumption per capita		Fix invest		Nonresidential investment		
Country	1950–58	195863	1950-58	1958-63	1950–58	1958-63	
U.S.S.R. Franco. Germany (Foderal Republie) Italy United Kingdom. Japan 1. United States.	5. 0 3. 3 6. 3 3. 1 1. 6 2. 3 1. 1	2. 5 3. 8 5. 7 6. 4 2. 4 7. 2 2. 3	10.8 5.5 9.6 8.2 4.4 7.7	7. 1 6. 5 9. 3 10. 3 5. 4 19. 9 5. 7	12. 5 4. 5 10. 0 6. 2 4. 7 (2) 1. 6	8. 9 6. 6 8. 7 10. 3 3. 8 (2) 5. 8	

¹ 1953–58. ² Not available.

Sources: Market economies—See table I-2. U.S.S.R.: Consumption (see table VIII-1); investment (see sources for construction index in table 1-1).

At the same time there has been a sharp decline in the rate of growth in new capital investment. In contrast, except for West Germany where the drop was nominal, the rate of investment rose in the market economies between the two periods. There has been an actual decline in housing construction, largely the result of a sharp curtailment in private housing authorizations. In recent years the investment decline has been even more dramatic, the annual average increment for 1961–63 being only 4.7 percent for all investment and 6.7 percent if housing is excluded.

Between 1960 and 1963 defense expenditures, as measured by the imperfect indicator of the state budget, increased by more than 10.5 percent per year though in 1963 the increases has fallen to 4.7 percent. Some rough notion of the change in emphasis in military efforts is conveyed by reference to two previously cited originating sector trends. Defense services, which refer in the income originating context only to personnel expenditures, have been declining since the midfifties; while scientific services, heavily oriented to defense support, have been rising very rapidly. These two disparate trends reflect the shift in military emphasis from mass armies to the research and developmental activities essential for sophisticated weaponry.

³ Joint Economic Committee, U.S. Congress, Annual Economic Indicators for the U.S.S.R., 1964. Table VIII-5.
4 Ibid.

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FACTORS AFFECTING GROWTH RETARDATION

Economic growth may be analyzed, as in the foregoing passages, in terms of originating sectors or of uses of national product. It may also be analyzed in terms of factor inputs into the productive process. Most simply it can be expressed as the input of labor times the output per unit of labor, usually designated as labor productivity. If sufficient data is available, the labor productivity expression can be less ambiguously replaced by other productive inputs—capital, education,

land, organization, and the like.

Beginning with the simplified approach, we note that part of the explanation for the retardation in growth lies in a less favorable manpower situation, the rate of increase having dropped to 1.4 from 1.9 percent in the earlier period (table I-4). This trend reflects the delayed effect of reduced wartime birth rates and the increasing difficulty of further raising an already high labor participation ratio. However, the U.S.S.R. is not conspicuous in such a trend with larger declines in West Germany, Italy, and Japan without commensurate effects on output. More striking has been the sharp deceleration in labor productivity advancement, even if cyclical weather influences are removed. In the earlier period Soviet productivity growth performance ranked at the top just below Germany's; in the later period it was much below that of Japan and the large continental powers. It moved in the opposite direction to that of all major industrialized countries, except for Germany, with a considerably smaller decline.

Table I-4.—Employment and labor productivity as determinants in comparative growth of GNP

[Average annual rates]

		1950-58			1958-63	
Country	GNP	Employ- ment	Produc- tivity 1	GNP	Employ- ment	Produc- tivity 1
U.S.S.R. France Germany (Fodoral Republie) Italy United Kingdom Japan 2 United States	7. 0 4. 4 7. 0 5. 6 2. 4 6. 1 2. 9	1. 9 . 4 2. 4 1. 6 . 4 2. 1 1. 0	5. 0 4. 0 5. 1 3. 9 1. 9 4. 0 1. 9	4. 5 5. 0 5. 9 6. 6 3. 0 12. 5 4. 1	1.4 .9 1.5 1.1 .5 1.3 1.5	3. 1 4. 1 4. 3 5. 4 2. 5 11. 1 2. 6

¹ Index of GNP: Index of employment expressed in man-years. No adjustment has been made for reductions in working hours. In the 2 time periods under consideration there was a larger reduction in annual hours worked in manufacturing in the U.S.S.R.. 13 percent (Narodnoe Khoziaistos SSSR v 1968 Godu, p. 488) than in the other conomies—France, 0.5; Germany, 7.8; United Kingdom, 2.5; and the United States 3.2 percent (OECD, Productivity Measurement Review, November 1962, p. 12).
² Japanese working hours rose by 3.2 percent (Japan, Ministry of Foreign Affairs, Statistical Survey of Japan, 1962, p. 11.). Therefore, in terms of man-hours Soviet productivity accomplishments are relatively understated, but a precise adjustment cannot be made in the absence of information on hours of work in nonmanufacturing occupations for most of the countries in the comparison.

Sources: GNP—See table I-2.
Employment—Market economics: OECD, Manpower Statistics, 1960-62. United Nations, Monthly Bulletin of Statistics, November 1964.
U.S.S.R.—See table VI-2 for civilian employment and appendix table 1, services sources, for military

An important factor in the decline in productivity advancement has been the cited sharp drop in the rate of growth in new capital investment (table I-3). However, the reduced investment growth rate does not suffice to explain, the productivity deceleration, as there has been

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a sharp reduction in the return on or efficiency of investment. The economywide capital-output ratio has risen dramatically for the Soviet Union in the post-1958 period (table I-5).⁵ In the period prior to 1958 the U.S.S.R., together with France and Germany, was enjoying the highest return on its capital outlays. After 1958 the U.S.S.R. found itself with the lowest return on its investment of any of the major industrial powers.

Table I-5.—Comparative incremental capital-output ratios

Econom	ywide ¹	Industry 2		
1950-58	1958-63	1950-58	1958-63	
3.7	8.0	4.3	9.6 3. 5	
3.6 4.4	5. 0 3. 5	4.6 3.9	4.4 2.6	
6.6 5.0	6.1 2.6	(3)	6.6 (*) 3.4	
	1950-58 - 3. 7 4. 0 - 3. 6 4. 4 - 6. 6	3.7 8.0 4.0 3.5 3.6 5.0 4.4 3.5 6.6 6.1 5.0 2.6	1950-58 1958-63 1950-58 3.7 8.0 4.3 4.0 3.5 (*) 3.6 5.0 4.6 4.4 3.5 3.9 6.6 6.1 12.3 5.0 2.6 (*)	

¹ Increase in fixed nonhousing investment required to obtain a unit of increase in gross national product per employce. A lag of a year between a unit of investment and of output has been assumed. Thus, output for the period 1951-58 has been compared with investment for the period 1950-67. Similarly, output for 1950-63 is compared with investment for 1968-62.

The lower the ratio the higher the return on investment or the lower the capital investment per unit of output. The ratio is increased to the extent that unutilized productive capacity exists. Thus the apparent decrease in the U.S. ratio in the later period reflects the utilization of capacity idled during the 1958 recession.

Sources: See table I-3.

The sharply reduced efficiency of investment might be explained by the dismal farm record of recent years, which has led to a high level of inefficiently used productive capacity in agriculture and the consumer goods industries. However, the agricultural inefficiency hypothesis is nullified if the same investment efficiency test is limited to the industrial sector. While the return on industrial investments was rising in five of the large market economies, in the U.S.S.R. the amount of new investment required to produce additional output doubled (doubled capital-output ratio) in the years after 1958. The rate of increase in the ratio is less if the change in the industrial labor force is not taken into account, implying worsened performance in the labor productivity advancement.

The decline in efficiency of industrial investment cannot be explained by a shift in the composition of investment. If the 1959 average capital-net output ratios for nine industrial branches are weighted by the proportions of total industrial investment accruing to them, 6 respectively, for the periods 1950-58 and 1958-62,7 the effect of the shift in investment composition is to change the aggregate capital-

recession.

2 Increase in fixed investment per employee required to obtain a unit of increase in industrial (manufacturing, mining, public utilities) production. The same lag is assumed as in the economywide comparison.

8 Not available.

by While usoful as a rough indicator of the efficiency of capital utilization, capital-output ratios have limitations which should be kopt in mind. If so aggregative as to cover the entire economy or all of industry, their ratios may be strongly influenced by differing oconomic structures with differences between sectors or industrial branches often larger than those between countries. The use of marginal, rather than average, ratios may introduce distortions crising from discontinuities in investment trends. Similarly, differences in capacity utilization on terminal dates may also bias the intercountry comparisons. Even with these limitations in mind, the divergence in trends in capital-output ratios between the U.S.S.R. and the market economies has been so glaring since 1968 as to be flittle affected by the qualifications cited above.

O Data on net output from Vladimir Treml, The 1959 Soviet Intersections Trion Traile, vol. 1, Rescarch Analysis Corp. (TP-137), Table 33. Data on capital stock from Tsentral noe Statichesko Upavlenie, Narodnogo Khaziastvo SSSR v 1960 Godu (Central Statistical Administration, National Economy of the U.S.S.R. In 1960), p. 87.

7 1961 edition of above statistical compendium, pp. 541 and 545, and 1962 edition, p. 434.

output ratio imperceptibly and in the opposite direction to the actual trend. Therefore, one must conclude that there must have been marked increases in marginal capital-output ratios within inindustrial branches. Preliminary calculations from an extended research effort by the author indicate that marginal capital-output research effort by the author indicate that marginal capital-output ratios for most industrial branches increased significantly in the period 1958-63 as compared with the 8 years ending with 1958. Shifts in investment proportions among branches explained only one-seventh of the rise in the industry sector ratio. The rises were particularly large in ferrous metals, coal, chemicals, construction materials, and consumer goods branches. Calculations from Soviet sources, which utilize a cross rather than a net output concent, also sources, which utilize a gross rather than a net output concept, also disclose sharp increases in capital requirements per unit of output for 1960 as compared with 1955.8

The sharp decline in the rate of increase in investment since 1960 has been matched by a rapid upsurge in defense expenditures. A similar development occurred during the Korean war mobilization of the early 1950's. Conversely the years of reduced military spending of the midfifties were those in which investment grew at rapid rates. Furthermore, the declining numbers of military personnel since 1958 implies that the bulk of the increase in defense outlays has occurred in nonpersonnel expenditures. The stress within the defense effort has been on research and development and procurement of sophisticated weaponry. Unfortunately for the Soviet planners the scarce resources in the form of scientists, engineers, managers, and supplies of high quality materials and components needed to sustain this emphasis are identical with those required to undertake the type of investment needed for rapid growth.

The investment emphasis in recent years has centered on the sectors featuring the introduction of new technology; e.g., chemicals, oil and gas, and complex machinery. Between 1958 and 1963 productive investment in industry as a whole rose by some 46 percent, but the increases in chemicals, oil and gas, and machinery were 226, 52, and 74 percent, respectively. The increased difficulties of design, construction, and operation of finished facilities in these spheres of new technology are quantified by the high volume of uncompleted plants. technology are quantified by the high volume of uncompleted plants; as compared with an increase of over two-thirds for productive plant

as a whole between 1958 and 1963, the rise was more than double for machinery and more than triple for chemicals. Apparently the competition for scarce productive factors between military and investment claims has become more acute and resolved in favor of defense needs. This decision may have been implemented both by explicitly higher priorities for military production and by the less explicit policy of giving investment claimants less timely and coordinated delivery of vital inputs. The rising volume of incompleted projects reflects the latter policy. Even if investment had been given a higher resource priority, there would still have been growth retardation resulting from the additional time required to assimilate new technologies.

⁸ Akademiia Nauk S.S.S.R., Kapital'noe vlozheniia i reservy ikh ispol'zovaniia (U.S.S.R. Academy of Sciences, Capital Investments and Roserves for their Utilization), 1963, p. 266.
9 Since 1960 rates of increase in investment have averaged only 4 percent, while explicit defense outlays a since by more than 10.5 percent per year (9.3 billien rubbes in 1960 to 13.3 billion in 1963).
10 Economic Indicators * * *, table IV-5 and Pravda, Jan. 24, 1964.
11 Narodnore Khozlaistvo SSSR v. 1963 Godu, pp. 460-461.

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COMPARATIVE SIZE AND FUTURE TREND OF GNP

In 1963 the U.S.S.R. was the world's second largest economy with a GNP approximately 46 percent the size of the United States and some 2½ times as large as those of the principal Western European countries (table I-6). In per capita terms its relative position is less favorable—about three-eighths of the United States; more than a third below France, Germany, and the United Kingdom; about equal to that of Italy; and about 30 percent above Japan's.

Table I-6.—Comparative dollar values of gross national product in 1963 [Market prices]

Country	Ranked by GNP (biliions)	Country	Ranked by per capita (dollars)
United States U.S.S.R. Germany (Federal Republic) United Kingdom France Japan. Italy	584 265 107 97 94 87 56	United States France. Germany (Federai Republic) United Kingdom U.S.S.R Italy Japan	3, 084 1, 964 1, 858 1, 803 1, 178 1, 107 907

SOURCES AND METHODOLOGY

France, Germany, Italy, and United Kingdom: 1963 GNP is originally expressed in the countries' own currencies. They are obtained from the sources noted in table I-2. Ratios for converting these estimates to dollars are initially based on the 1950 ratios in Gillbert and. Kravis, An International Comparison of National Products and the Purchasing Power of Currencies, OEEC. Paris, 1964. The geometric means of United States and European weighted ratios are used. The ratios are moved to 1963 by the quotients of relevant European price indexes divided by U.S. price indexes. The price indexes can be derived from sources used to obtain the original estimates.

Japan: The same methodology is followed for Japan. 1963 yen estimates are obtained from the source cited in table I-2. A 1960 geometric conversion ratio has been constructed by Irving Kravis in Journal of Political Economy, August 1963, p. 327. The ratio is expressed in 1963 prices by the same procedure used for the OECD economies.

U.S.S.R.: The same methodology is followed for the U.S.S.R. The base year ruble estimate for Soviet GNP in 1955 is obtained from Morris Bornstein and others, Soviet National Accounts for 1955, Center for Russian Studies, University of Michigan, 1961, pp. 71-72. The 1955 estimate is moved to 1963 by the GNP mick shown in table I-1. The 1955 geometric conversion ratio has been obtained from Morris Bornstein "A Comparison of Soviet and United States National Product," Joint Economic Committee, Comparisons of the United States and Soviet Economies, 1959, pp. 385-385. There is no available Soviet price index for moving the ratio to 1963 values, but scattered available statistics indicate little change in price levels for mational income, industrial products, and consumer goods. Therefore, the movement in the geometric ruble-dollar ratio from 1963 to 1963 is assumed to be only a function of changes in U.S. prices.

As a proportion of the U.S. equivalent, Soviet gross national product increased from a third in 1950 to a maximum of nearly 47 percent in 1961. Since then it has dropped a percentage point as U.S. growth has exceeded that of the Soviet Union. In absolute terms the U.S. margin reached a low of about \$266 billion in the recession of 1958. and has subsequently widened to approximately \$318 billion in 1963.

The future growth trend of the Soviet economy will be substantially below that of the early and middle 1950's, but should average somewhat in excess of performances since 1958 under the assumption of normal agricultural weather conditions. The projections for the market economies are based upon national target estimates for 1970 submitted to the Organization for Economic Cooperation and Development and upon official Japanese plan goal (table I-7). Through 1964 the continental economies and Japan have matched or exceeded targeted growth rates. The United Kingdom has lagged in its growth performance with future recoupment dependent on the adoption and successful execution of fundamental structural reforms. If the United States can maintain the expansion pace of the past 3 years,

it may be able to attain its 4.5-percent target. The lower limit of the

U.S. estimate reflects the average growth rate since 1960.

The Soviet plan revisions of recent years provide little basis for reliance upon official intentions. Perhaps ample guide will be provided by the yet unpromulgated 5-year plan commencing in 1966.

Table I-7.—Comparative projections of GNP

[Annual averages]

5. 5 5. 0 4. 1 5. 6 3. 3 7. 2	4. 6 5. 0 5. 0 5. 5 2. 7 10. 0 4. 0
	4, 1 5, 6 3, 3 7, 2 -4, 5

SOURCES AND METHODOLOGY

Projections: For the European OECD countries rates represent official national projections of growth within the overall OECD target of 4.5 percent (OECD, Policies for Economic Growth, Paris, 1962, p. 28). For the United States the upper limit is the official OECD projection and the lower limit is the annual average since 1960.

The projection of Japan is the official plan goal (Japan, Economic Planning Agency, New Long Range Economic Plans of Japan, 1961–70, Tokyo, 1961, p. 2).

The U.S.S.R. projection represents a range bounded at the lower limit by the growth of GNP per employee from 1958–63 of 3.3 percent (table 4) and at the upper limit by the rate which would have been achieved had agricultural output continued to rise by the 1.5 percent average annual increase of 1988–61—5 percent. The upper limit productivity estimate has been reduced to 4.8 percent to reflect the continuing decline in the rise of nonagricultural productivity. When these 2 productivity projections are multiplied by the 1.1 percent projected growth of the labor force, the range of growth of 4.4 to 5.9 percent is obtained for the period 1964–70. When these estimates are combined with 1960–64 performance, the growth range shown in the table is derived.

Performance: 1960–63 estimates from sources to table 2; 1964 estimates for market economies from London Economist, Jan. 12, 1965. U.S.S.R. 1964 estimate based on preliminary calculations of industrial and agricultural performance and assumption of continuation of 1963 rate of growth for other sectors.

In the absence of any official Soviet growth target for 1970, the extrapolation of their GNP is based on recent trends. On the assumption that 1958 represented a kink in the Soviet growth path the base for extrapolation lies in the post-1958 period. In view of the non-repetitive measures adopted during the past decade to increase repetitive measures adopted during the past decade to increase labor force participation and the high proportion of women in remunerative employment, it is unlikely that employment can be increased much beyond the annual increment of 1.1 percent projected for the working age group. As for productivity expectations, the minimum would appear to be established by the economy's 1958-63 performance with its reduced industrial growth rate and stagnation in agriculture. The upper limit presumes the same industrial growth rate, but resumption of the 1.5 percent annual growth in agricultural rate, but resumption of the 1.5 percent annual growth in agricultural output which prevailed from 1958 to 1961 before the onset of adverse weather factors. The computed upper limit has been adjusted slightly downward to reflect the continual deceleration in the rise of adverse of the continual deceleration in the rise of adverse of the continual deceleration in the rise of adverse of the continual deceleration in the rise of adverse of the continual deceleration in the rise of adverse of the continual deceleration in the rise of adverse of the continual deceleration in the rise of adverse of the continual deceleration in the rise of adverse of the continual deceleration in the rise of adverse of the continual deceleration in the rise of adverse of the continual deceleration in the rise of adverse of the continual deceleration in the rise of adverse of the continual deceleration in the rise of adverse of the continual deceleration in the rise of adverse of the continual deceleration in the rise of adverse of the continual deceleration in the rise of adverse of the continual deceleration in the rise of adverse of the continual deceleration in the rise of the continual deceleration in the r nonagricultural labor productivity.

Soviet growth superiority among the principal world economies is now a memory. For the remainder of this decade, Soviet growth will be little or no faster than that of France and Italy and considerably slower than that of Japan. The former wide disparity between Soviet and United States expansion rates will be reduced to around 1 per-The absolute difference between the national products of the

¹² Joint Economic Committee, U.S. Congress, Dimensions of Soviet Economic Power, 1962, p. 521.

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two economies will continue to widen, even given the lower limit United

States and upper limit Soviet growth projections.

In the second half of the decade of the 1960's, the Soviet leadership finds itself faced with proliferating demands on a tightened resource base. Given reduced labor force increments and decreased efficiency of capital inputs, the regime cannot simultaneously upgrade living standards, maintain a rapid growth rate, and match the United States in aerospace and nuclear development. Since 1960 both the growth of consumption levels and the expansion in output have tapered off significantly. While defense outlays rose sharply until 1963, the U.S.S.R. was not successful in maintaining parity in sophisticated weaponry with the United States and has recently moderated the burgeoning defense effort. The new post-Khrushchev regime has stressed reemphasis on consumer needs and the resumption of rapid growth. In addition to this switch in priorities there has been increasing concern about the efficiency with which limited recovered are being concern about the efficiency with which limited resources are being utilized. The emerging proposals for thoroughgoing institutional reform represent a determination to satisfy more claims on a tightened resource base.

APPENDIX

Table 1 .- Annual origin sector growth rates for Soviet GNP

			rercenta	igesi					
Sector	1959 weights	1958	1959	1960	1961	1962	1963	1950-58 Averago	
Industry. Construction. Agriculture. Transportation. Communication. Communication. Communication.	31. 0 10. 9 29. 2 7. 1 . 7 4. 5 16. 9	9. 1 17. 3 10. 4 10. 8 7. 1 5. 1	8.5 15.3 5.1 11.6 6.6 5.6 2.5	6. 8 8. 7 0. 5 9. 9 8. 5 7. 2 3. 7	7. 1 1. 2 8. 6 8. 1 6. 9 7. 7 5. 9	7.8 1.2 -1.2 8.2 7.8 5.5 6.8	6. 6 2. 8 -5. 1 9. 8 8. 2 5. 0 3. 0	9. 0 13. 1 5. 7 12. 2 6. 0 4. 0 2. 1	7. 5 5. 3 -0. 4 9. 5 7. 6 6. 2 4, 4
Gross national product	100.0	8.5	4.2	4.9	6.8	4. 3	2.6	7.0	4, 5

DERIVATION OF SECTOR INDEXES

Industry—See table III-7 for indexes for years 1959-63. Estimates for 1958 obtained from table III-7 of Annual Economic Indicators for the U.S.S.R. and for 1959 from Dimensions of Soviet Economic Power, p. 120. This index measures etvilian production. The inclusion of armaments production data in recort years based on evidence in the explicit defense budget for 1962 and 1963 would reinforce the indicated trend. Construction—Indexes in 1955 prices of state and cooperative (p. 44), and private housing (pp. 188-189) from Tsentral'ince Staticheskoe Upravlenie, Kapital'noe Stotictiestov S.S.R. (Central Statistical Administration, Capital Construction in the U.S.S.R.), 1961 for data through 1960. 1961 and 1962 data from same author, Narodnoe Knoziativo SSSR e 1984 Codu (the U.S.S.R. National Economy in 1962), pp. 433, 437, 1963 data from 1963 edition of same compendium. Collective farm investment from Vestrik Statistical Herald), No. 5, 1964, p. 92. 1950 collective farm investment from Vestrik Statistical Herald), No. 5, 1964, p. 92. 1950 collective farm investment assumes that productive investment in 1950 was the same ratio of total investment as in 1964.

Agriculture—The methodology used in constructing the index of net agricultural output in the U.S.S.R. is the same as that described on p. 98 of the JEC report for 1962, Dimensions of Soviet Economic Power, except for a few minor changes. For example, the commodities covered by the index have been increased with the inclusion of vegetables and eggs. Also, a change was made in the method of deducting the value of grain and potatoes used as livestock feed and state purchase prices (July 1968) were used as weights without adjustment for free market sales. The relative importance of free market sales has declined significantly in recent years.

Transportation—Norman M. Kaplan, Soviet Transport and Communications Output Indexes, 1988-62, Rand Corp. (RM-4264-PR), 1964, p. 55. 1963 output obtained by adjusting 1963 link relative for volume of freight table VII-2) by 1955

Table 2.—Composition of originating sector weights for 1959
[In billions of rubles]

Sector	Cash incomes	Incomes in kind	Interest return	Depreci- ation	Land rent	Total factor pay- ments	Proportion of GNP
Industry Agriculture Construction Transportation Communications Commerce	29, 1 15, 0 12, 6 4, 7 .6 4, 8	13, 0	6. 0 3. 2 . 4 2. 8 . 2	4,7 2,1 .6 1.6	4, 3	39.8 37.6 13.6 9.1 .9	31. 0 29. 2 10. 6 7. 1 9. 7 5. 4 16. 9
Services	17. 0	2, 5	3. 5	3. 2		26, 2	16, 9
Gross national product	79. 3	15. 5	16, 7	12,7	4,3	128. 5	100.0

The derivation of the component estimates and the methodology employed will be found in a separate publication by the author on "Derivation of 1959 Value Added Weights for Originating Sectors of Soviet Gross National Product."

CHAPTER II

POPULATION

GENERAL TRENDS

A declining birth rate is perhaps the most noteworthy development in Soviet demography in recent years. During the early 1950's, there were about 27 births per 1,000 population in the Soviet Union. By the end of the decade, the birth rate had declined to 25. Since 1960, however, the birth rate has declined quite rapidly and in 1964 stood at 19.7, 21 percent below its 1959 level. Twenty-eight percent of the 1959 to 1964 decline occurred between 1963 and 1964.

Several factors appear to be working to reduce the birth rate. Marital fertility has probably been declining at least since 1950, but because the proportion married among females presumably rose in response to the rising sex ratio, the birth rate declined only slightly. By 1960, however, there were about equal numbers of men and women in the prime reproductive ages and further increases in the sex ratio could not significantly increase the proportion married among females in these ages. Thus, further declines in marital fertility would necessarily cause birth rates to fall.

One other factor which serves to accelerate the decline in the birth rate since 1960 is that the population born during World War II, when birth rates were low, is now reaching childbearing age. This means that the population in these ages—and consequently the birth rate—is declining. For example, at the beginning of 1961, the female population 20 to 24 years old, the age group which has the highest fertility rate, was estimated to have numbered 11 million persons. But, by 1964, the number in this age group had declined by 26 percent, to an estimated 8.2 million.

Although the death rate in the Soviet Union has also declined, it has not declined enough to counteract the declining birth rate. This has meant that the natural increase rate has been falling. Only a sharp rise in the fertility of women, which would contravene prevailing trends, could prevent a declining growth rate. The total population of the Soviet Union has increased, of course, and unless the birth rate falls substantially below the levels postulated for the projections presented in tables II–7 to II–14, the increase should continue. The projections show the population as reaching 245 to 261 million by 1975 and 259 to 299 million by 1985. The growth rate, however, is expected to decline because as long as persons born during World War II are in the reproductive ages, the age structure of the Soviet population will serve to depress the birth rate.

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PROJECTED POPULAȚION OF SCHOOL AGE AND "COLLEGE AGE"

At the beginning of 1964, the Soviet Union had an estimated 18.6 million children aged 7 to 10 years, 17.6 million children aged 11 to 14 years, and 10.7 million adolescents aged 15 to 17 years. The number of children of primary school age (7 to 10 years) is expected to increase during the remainder of the present decade to a peak of about 20 during the remainder of the present decade to a peak of about 20 million. There is expected to be a decline in the size of this group during the 1970's, however, as children born during the 1960's reach school age. The number of children of intermediate school age (11 to 14 years) is also expected to increase to about 20 million by the early 1970's. Thereafter it should decline. The population of secondary school age, which numbered 10.7 million at the beginning of 1964, is expected to increase during the remainder of the 1960's and into the 1970's. By 1976, there are expected to be about 15 million persons aged 15 to 17 years in the Soviet Union. Toward the end of the 1970's, however, this group will be comprised of those born during the 1970's, however, this group will be comprised of those born during the

1970's, however, this group will be comprised of those born during the 1960's and the number is expected to drop.

The number of persons 20 to 24 years old, or the "college age" population, has been declining. In 1961 there were an estimated 21.9 million persons in this age range; in 1964 there were only 16.4 million, a decline of about 25 percent. By 1967, when the projections show this population as reaching its lowest point, there are expected to be only 11.9 million persons of "college age," a 46-percent decline from the 1961 level. This decline is related to the movement into this age group of persons born during World War II. After 1967, the projections point to a fairly rapid recovery, although the age group is not expected to attain its 1961 level before 1975:

PROJECTED MALE POPULATION OF MILITARY AGE

Males born during World War II began reaching military age during the early 1960's. As a consequence, the number of males 17 to 19 years old dropped from 6.1 million in 1959 to a low of 3.2 million during 1962 and 1963. By the beginning of 1964, however, the population in this group had increased to an estimated 3.9 million, but the projections show the number of males in the military ages as exceeding the 1959 figure only after 1968. The increase in the size of this group is expected to continue until the end of the 1970's when it will reach a high of 7.7 million, and then drop somewhat during the 1980's. The number of males in the broader range of military ages, 17 to 34 years, declined by about 10 percent between 1959 and 1964, from 33.7 million to 30.8 million. From its 1964 low, it is expected to increase gradually, reaching 33 million by 1970, 40 million by 1980, and between 41 and 43 million by 1985.

PROJECTED POPULATION OF THE "ABLE-BODIED AGE"

Males aged 16 to 59 years and females aged 16 to 54 years constitute the able-bodied ages in the Soviet Union. Estimates indicate that during 1959 and 1960 the population in this age group declined by about 0.4 million and that from 1961 through 1963 the group grew less rapidly than it had prior to 1959. Thus, at the beginning

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of 1964, there were an estimated 121.7 million persons of "ablebodied age" in the Soviet Union, an increase of only 2 million over the 1959 figure. During the 5-year period, 1966 through 1970, an increase of nearly 10 million is projected, and the population of "able-bodied age" is shown as reaching 134.9 million at the beginning of 1971. By 1980, the population in this group is expected to number 157 million, and, by 1985, between 159 and 164 million.

The projections point to persistently larger increases for men than for women of "able-bodied age." In 1959, because of the deficit of men due to World War II, women 16 to 54 years old outnumbered men 16 to 59 years old by about 9.7 million, despite the fact that the age span for men in this group is 5 years longer than that for women. By 1964, there were 0.6 million fewer women but 2.6 more men of "ablebodied age" than there were in 1959. By the mid-1970's, there are expected to be as many men as women in the "able-bodied ages," and by 1985, according to the projections, men in this group should outnumber women by about 8.5 million.

Table II-1.—Population of the U.S.S.R., by urban and rural residence, selected years, 1913-65

[Population figures in millions	[Population	figures	in	millions
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Territory and dates	Population			Percent		
	Total	Urban	Rural	Total	Urban	Rural
terwar territory:						
1913	139.3	24.8	114. 5	100	18	85
1917	143.5	25.8	117.7	100	18	8
1919	138.0	21.5	116. 5	100	16	86
1920	136.8	20.9	115.9	100	15	8
Dec. 17, 1926	147.0	26.3	120.7	100	18	8:
1929	153.4	28.7	124.7	100	19	8
1937	163.8	46.6	117. 2	100	28	7
1938	167.0	50.0	117.0	100	30	7
Jan. 17, 1989	170.6	56.1	114.5	100	33	6
40 territory: Jan. 1, 1939 1	190.7	60.4	130.3	100	32	6
ostwar territory:						_
1913	159.2	28. 5	130.7	100	18	8
1917	163.0	20.1	133.9	100	18	8
Jan. 1, 1950	178.5	69.4	109.1	100	39	6
Jan. 1, 1951	181.6	73. 0	108.0	100	40	6
Jan. 1, 1952	184.8	76.8	108.0	100	42	Į.
Jan. 1, 1953.	188.0 191.0	80. 2 83. 6	107.8 107.4	100 100	43	ē ē
Jan. 1, 1954	194.4	86.3	108.1	100	44 44	į
Jan. 1, 1955	197.9	88.2	109.7	100	45	į
Jan. 1, 1957	201.4	91.4	110.0	100	45	į
Jan. 1, 1958	204.9	95.0	109.3	100	47	'n
Jan. 15, 1959		100.0	108.8	100	48	į
Jan. 1, 1960		103.8	108.5	100	49	ì
Jan. 1, 1961	216.1	108.3	107.8	īŏŏ	50	ā
Jan. 1, 1962.	219.7	111.8	107.9	100	5 <u>ĭ</u>	4
Jan. 1, 1963	223.1	115.1	108.0	100	52	4
Jan. 1, 1964	226.2	118.6	107.7	100	52	4
Jan. 1, 1965	229.1	121. 6	107. 5	100	53	4

¹ The figures shown are official Soviet estimates for the territory of the U.S.S.R., including the western oblasts of the Ukraine and Byelorussie, Moldavia, Lithuania, Latvia, and Estonia. The figures presumably apply to the interwar territory adjusted for the annoxations of 1939 and 1940, but exclude the population in the territory retroceded to Poland at the end of the war.

Source: 1913-63: Tsontral'noye statisticheskoye upravleniyo pri Sovete ministrov SSSR, Narodnoye khozyayetvo SSSR v 1902 godu, statisticheskiy yezhegodnik (The Nalianal Economy of the U.S.S.R. in 1902, A Statistical Yearbook), Moscow, 1963, pp. 7-8. 1964-65: ____ SSR v tsifrakh v 1964 godu. Kratkiy statisticheskiy sbornik (The U.S.S.R. in Figures in 1963, A Short Statistical Compilation), Moscow, 1965, p. 7.

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Table-II 2 .- Birth, death, and natural increase rates for the U.S.S.R., selected years 1913-64

[Rate per 1.000 population]

Year	Birth	Death	Natural increase	Year	Birth	Death	Natural increase
1913	47. 0 44. 0 44. 3 38. 7 37. 5 36. 5 31. 3 26. 7 27. 0 26. 5 25. 1	30, 2 20, 3 23, 3 18, 9 17, 5 17, 3 18, 1 9, 7 9, 7 9, 7 9, 4 9, 1	16. 8 23. 7 21. 0 19. 8 20. 0 19. 2 13. 2 17. 0 17. 3 17. 1 16. 0	1954	26. 6 25. 7 25. 2 25. 4 25. 3 25. 0 24. 9 23. 8 22. 4 21. 2	8.9 8.2 7.6 7.2 7.1 7.2 7.5 7.0	17. 7 17. 5 17. 6 17. 6 18. 1 17. 4 17. 8 16. 6 14. 9 14. 9

Source: Tsentral'noye statisticheskoye upravleniye pri Sovete ministrov SSSR, Narodnoye khozyaystvo SSSR v 1082 godu, statisticheskiy yezhegodnik (The National Economy of the U.S.S.R. in 1982, A Statistical Yearbook), Moscow, 1963, p. 30;, Narodnoye khozyaystvo SSSR v 1963 godu, statisticheskiy yezhegodnik (The National Economy of the U.S.S.R. in 1982, A Statistical Yearbook), Moscow, 1965, p. 104;, SSSR v tsifrakk v 1964 godu, Kratkiy statisticheskiy sbornik (The U.S.S.R. in Figures in 1984, A Short Statistical Compilation), Moscow, 1965, p. 14.

Table II-3.—Estimated and projected population of the U.S.S.R. and the United States, selected years, 1913-85

[Unless otherwise noted, figures relate to July 1. Beginning with 1939, the figures for the United States include Armed Forces overseas; prior to 1952, they exclude Alaska and Hawaii]

[In millions]

Year	Population of in	the U.S.S.R.	Population of the	U.S. population as a percent of the Soviet population in—		
	Present territory	Pre-World War II territory	United States	Present territory	Pre-World War II territory	
1913 1917	159. 2	139. 3 143. 5	97. 2 103. 3	61.1	69. 8 72. 0	
1917		7,211.2	103.3		72.0	
1920 1926		1 147. 0	117. 4		79. 9	
1929		153.4	121.8		79. 4	
1939		2 170. 6	131.0		76.8	
1941	200.0	-170.0	133. 4	66. 7	10.0	
1950	180.1		152.3	84.6		
1964	227. 9		192.1	84.3		
1970:						
<u>A</u>	246.4		211. 4	85.8		
<u>B</u>	244, 6		209.0	85.4		
g	241, 4		206, 1	85.4		
D	239, 8		205, 9	86. 0		
1980:	201.1		000 4	00.0		
A	281.4		252.1	89.6		
B	274.2		245.3	89. 5		
g	281.9		236. 5	90.3		
100F.D	252. 7		233. 1	92.2		
1985:	200.0		075.0	00.1		
A	299.3		275.6	92. 1		
	290.9		266. 3	91. 5		
g	273. 2		254.0	93. 0		
D	258. 9		248.0	95.8		

² Census of Jan. 17, 1939.

Source: U.S.S.R.: 1913-39: Tsentral'noye statisticheskoye upravleniye pri Sovete ministrov SSSR Narodnoye khazyaystvo SSSR v 1962 godu, statisticheskiy yezhegodnik (The National Ecodomy of the U.S.S.R. in 1962, A Statistical Yearbook), Moscow. 1963, pp. 7-8. 1941: Estimate. 1950-85: U.S. Department of Commerce, Bureau of the Census, Projections of the Population of the U.S.S.R., by Age and Sex: 1964-85, by James W. Brackett, International Population Reports, Series P-91, No. 13, Washington, 1964 p. 35. See table II-7 for an explanation of the projection scries.

United States: 1913-41: U.S. Department of Commerce, Bureau of the Census, Historical Statistics of the United States, Colonial Times to 1967, Washington, 1960, p. 7. 1950 and 1964: ____, Estimates of the Population of the United States, Jan. 1, 1960, to Jan. 1, 1965, Current Population Reports, series P-25, No. 299, Washington, 1966. 1970-85: ____, Projections of the Population of the United States, by Age and Sex: 1964, to 1985 by Jacob S. Slegel, Meyer Zitter, and Donald S. Akers, Current Population Reports, series P-25, No. 286, Washington, 1964, p. 41. All four series assume that mortality will decline and that there will be 300,000 im-

migrants annually. The fertility assumptions, expressed in terms of the maternal gross reproduction rate are given below. For comparison, the maternal gross reproduction rate in 1962 was 171.

	Serres A	Series B	Series C	Series L
1965	175	164	151	151
1970	172	157	130	136
1975	170	157	139	131
1000	168	156	139	126
1007			137 197	
1980	166	154	137	123

Table II-4.—Birth and death rates for the U.S.S.R. and the United States, 1955-63 [Rate per 1,000 population]

	Birth	rate	Death rate		
Year	U.S.S.R.	United States	U.S.S.R.	United States	
1955. 1956. 1957. 1958. 1959. 1960. 1961. 1962. 1963.	25. 7 25. 2 25. 4 25. 3 25. 0 24. 0 23. 8 22. 4 21. 2 10. 7	25. 0 25. 2 25. 3 24. 6 24. 3 23. 7 23. 3 22. 4 21. 6 21. 3	8.2 7.6 7.8 7.2 7.6 7.1 7.2 7.5 7.2	9. 3 9. 4 9. 6 9. 4 9. 5 9. 5 9. 6	

Source: U.S.S.R.: Table II-2.
United States: U.S. Department of Commerce, Bureau of the Census, Statistical Abstract of the United States: 1968, Washington, 1962, p. 52; _____, Statistical Abstract of the United States: 1964, Washington, 1964, p. 48; ____, Current Population Report, Series P-25, No. 30, p. 1.

Table II-5.—Populations of cities in the U.S.S.R. with 1964 populations of 500,000 inhabitants or more, and of all Republic capitals, 1939, 1969, 1963, and 1964

[Population figures in thousands. Figures for 1939 presumably rolate to the beginning of the year; those for 1969 to the census of Jan. 15. Figures for other years are official estimates for Jan. 1]

City		Popu	lation	Percent change			
	1939	1959	1963	1964	1939-64	1959-64	1963-64
1. Moscow 2. Leningrad 3. Klyev 4. Baku 5. Gor kly 6. Tashkent 7. Khar'koy 8. Novosibirsk 9. Kuybyshev 10. Sverdlovsk 11. Donetsk 12. Chelyabinsk 13. Tbilisi 14. Dnepropotrovsk 15. Perm' 16. Kazan' 17. Odessa 18. Rostov-na-Donu 19. Omsk 20. Voigograd 21. Minsk 22. Saratov 23. Ufa 24. Riga 25. Yerevan 26. Aima-A ta 27. Voronezh 29. Krasnoyarsk 20. Tullin 20. Furure 31. Tallin 32. Dushanbe 33. Vifa 32. Vishanbe 33. Vifa 34. Kishinev 36. Ashkhabad	4, 542 3, 385 847 775 650 833 404 390 423 466 273 519 527 300 308 602 510 289 445 237 372 372 372 373 372 373 374 372 373 374 375 375 375 375 375 375 375 375 375 375	6, 039 3, 321 1, 104 971 912 934 886 809 689 689 689 647 667 667 667 667 667 689 581 581 581 589 448 448 448 448 448 422 220 284 234 234 234 234 234 234 234 234 234 23	6, 354 3, 552 1, 248 1, 086 1, 029 1, 006 990 901 900 901 774 767 768 738 732 725 725 725 725 725 725 725 725 725 72	6, 388 3, 607 1, 292 1, 116 1, 066 1, 061 1, 013 1,	40.6 6.6 62.5 44.0 65.5 92.9 25.8 150.7 137.9 112.1 70.4 43.3 143.5 143.5 143.5 143.5 143.5 152.3 173.4 173.	5.8 8.6 17.0 14.9 13.2 16.3 12.2 14.3 15.1 13.6 14.7 13.1 14.4 14.8 8.1 17.7 20.8 8.1 17.7 20.8 14.5 33.1 24.6 21.6 21.6 21.6 21.6 21.6 21.6 21.6 21	0.55.883.11.23.02.66.33.32.57.52.23.23.23.23.25.75.22.43.33.25.73.24.23.23.23.23.23.23.23.23.23.23.23.23.23.

Source: 1039, 1959, and 1963: Tsentral'nove statisticheskoye upravleniye pri Sovete ministrov SSSR, Narodnoye khozyaystvo SSSR v 1962 godu, statisticheskiy yezhegodnik (The National Economy of the USSR in 1962, a Statistical Yearbook), Moscow, 1963, p. 25. 1964:, SSSR v tsifrakh v 1963 godu, Kratkiy statisticheskiy sbornik (U.S.S.R. in Figures in 1963, A Short Statistical Compilation), Moscow, 1964, pp. 16-17.

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Table II-6.—Average family size in the U.S.S.R., by nationality and urban and rural residence, 1959

[Nationality groups are ranked according to average family size]

Nationality	Percent	Percent distribution	Ave	rage family s	ize
* TOTAL CONTROL OF THE PROPERTY OF THE PROPERT	urban of the total population		Total	Total Urban	
All nationalities	48	1 100. 0	3.7	3. 5	3, 9
Tadzbik Uzbek Turkmen Azerbaydzhan Armenian Kazakb Kirgiz Georgian Moldavian Belorussian Russian Litbuanian Ukrainian Latvian Estonian	22 26 35 57 24 11 36 13 32 58 35	0.7 2.9 0.5 1.4 1.3 1.7 0.7 1.3 3.8 54.6 1.1 17.8 0.7 0.5	5.2 5.0 5.8 4.7 4.5 4.5 3.7 3.6 3.5 3.1 3.1	5. 1 4. 9 7 4. 4 6 4. 4 7 3. 8 6 3. 8 6 3. 4 5 3. 3 0 3. 3 1	5. 2 5. 0 5. 1 4. 9 5. 0 4. 6 4. 1 4. 1 3. 7 3. 6 3. 6 3. 2

¹ Because about 10 percent of the population are members of nationality groups other than those listed, the distribution does not add to the total. Data on average family size for other nationalities are not reported.

Source: Tsentral'noyo statisticheskoye upravleniye pri Sovete ministrov SSSR Itogi Vessoyuznov perepisi naseleniya 1858 goda, SSSR (The Results of the All-Union Census of Population 1958, U.S.S.R.), Moscow, 1962, pp. 184 ff. and 252.

Table II-7.—Estimated and projected population of preschool age in the U.S.S.R.: 1959-85

[Jan, 1 figures in millions. Figures were independently rounded without adjustment to group totals. The letters A, B, C, and D denote the projection series]

		Under	7 years	,		Under 3 years				3 to 6 years			
Year	A	В	C	D	A	В	С	D	A	В	С	D	
1959 1960 1961 1962 1963 1964 1965 1966 1967 1968 1969 1970 1971 1972 1973 1974 1975 1976 1977 1978 1978 1978 1979 1978 1979 1979 1979 1979 1978 1988	34. 3 33. 9 33. 5 32. 5 32. 4 32. 5 32. 6 32. 9 33. 4 34. 0 34. 8 36. 6 37. 2 38. 0 39. 6 40. 4 41. 1	33 34 34 34 34 33.5 32.0 31.3 30.5 30.4 30.4 30.7 31.0 31.0 31.0 32.1 32.1 32.1 32.1 32.1 32.1 32.1 32.1	. 7 . 4 . 6	33. 6 32. 3 30. 9 20. 3 22. 6 24. 7 23. 8 22. 0 21. 6 21. 6 21. 6 21. 8 22. 2 22. 6 23. 5 23. 5 23. 5 23. 9	14. 2 14. 1 14. 0 13. 8 13. 8 14. 0 14. 2 14. 2 14. 9 15. 3 16. 0 16. 3 17. 7 17. 7 18. 3 18. 5	15	.0	13.5 12.5 11.5 10.5 10.5 10.1 9.6 9.3 9.1 9.3 9.1 9.3 9.5 9.5 10.4 10.4 10.6	19. 1 18. 7 18. 5 18. 3 18. 3 18. 5 18. 7 19. 6 20. 0 20. 5 21. 0 21. 5 21. 9 22. 4 23. 3	19 20 20 19	.6	18. 3 17. 2 16. 0 14. 2 13. 7 18. 2 12. 9 12. 2 12. 1 12. 1 12. 3 12. 5 12. 8 13. 8	

Source: U.S. Department of Commerce, Bureau of the Census, Projections of the Population of the U.S.S.R., By Age and Sex: 1964-85, by James W. Brackett, International Population Reports, series P-91, No. 13, Washington, 1964. The assumptions used in the preparation of the projections are as follows:

Fertility: Series A: That the maternal gross reproduction rate will rise from its level of about 125 in 1963 to 130 in 1964 and will continue to rise by a constant annual amount until 1974, after which it will stabilize at 140. Series B: That the maternal gross reproduction rate will remain constant at the 1963 level throughout the projection period. Series C: That the maternal gross reproduction rate will decline to 115 in 1964 and will continue to decline by a constant annual amount until 1974, after which it will stabilize at 100. Series D: That the maternal gross reproduction rate will decline to 110 in 1964 and that it will continue to decline by a constant annual amount until 1974, after which it will stabilize at 80.

Mortality: That age-specific death rates will decline in accordance with postwar international experience.

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Table II–8.—Estimated and projected population of school age in the U.S.S.R., $1959{-}85$

[Jan. 1 figures in millions. Figures were independently rounded without adjustment to group totals. The letters A, B, C, and D denote the projection series]

		7 to 1	7 уеаг	s	·	7 to 10 years			11 to 14 years				1	5 to 1	7 year	8
Year	A	В	B C D A B C D					A	В	С	D	A	В	O	D	
1969		44 46 48	.1 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0		17. 1 17. 6 17. 8 18. 1 18. 4 18. 6 19. 1 19. 3 19. 5 19. 9 20. 0 19. 8 19. 4				11. 3 13. 2 14. 9 16. 1 17. 1 17. 6 17. 7 18. 1 18. 3 18. 5 10. 0 19. 2 19. 5				8. 0 6. 3 7. 7 9. 2 10. 7 11. 8 12. 6 13. 0 13. 3 13. 6 13. 6 13. 8			
972 973 974 975	53. 0 52. 9 52. 8 52. 6	52. 5 52. 1	51. 7	51.3	19. 0 18. 7 18. 5 18. 4	18.8 18.3 17.9 17.5	18. 5 17. 5 16. 7 15. 8	17.1		10. 9 20. 0 19. 7 19. 4						
976 977	52.3 52.0 51.7 51.4	50. 4 49. 7	46. 2	47. 4 45. 7 43. 9 42. 0	18. 3 17. 3 15. 4 14. 2 18. 3 17. 1 15. 0 13. 6 18. 4 17. 1 14. 8 13. 2 18. 7 17. 2 14. 7 12. 9			18. 7 18. 3 17. 5 17. 1 18. 5 17. 9 16. 7 16. 0				15.0 14.7				
980	51. 4 51. 7 52. 3 52. 9 53. 7 54. 6	48. 4 48. 6 49. 0	42.5 41.6 41.2 41.1	40, 1 88, 4 86, 7 85, 8 35, 1 34, 7	20.0	17. 5 17. 7 18. 1 18. 4 18. 8 19. 1	14.7 14.8 14.9	12.6 12.4 12.2 12.1 12.1 12.2	18.3 18.8 18.4	17. 2 17. 1 17. 1 17. 2 17. 5	15.3 15.0 14.8 14.7 14.7	13. 2 12. 9 12. 6	13. 9 13. 9	13. 9 13. 6 13. 2 13. 0 12. 8 12. 8	13. 5 12. 8 12. 0 11. 6 11. 3 11. 1	13. 8 12. 4 11. 3 10. 8 10. 4

Source: Same as table II-7.

Table II-9.—Estimated and projected population of college age in the U.S.S.R., 1959-85

[Jan. 1 figures in millions]

Year	Population 20 to 24 years old	Year	Population 20 to 24 years old
959	20, 3 21, 4 21, 9 21, 6 19, 3 16, 4 14, 0 12, 4 11, 9 13, 0 15, 2 17, 3 19, 2 20, 5	1973 1074 1975 1976 1977 1977 1978 1979 1980 1980 1981 1982 1982 1982 1984 1984	21, 21, 22, 22, 22, 23, 24, 24, 24, 24, 24, 28,

 $^{^1\,\}mathrm{Series}\,\,\mathrm{B}$ projection. The figures for series A, C, and D are 24,000,000, 23,400,000, and 23,300,000, respectively.

Table II-10.—Estimated and projected male population of military age in the U.S.S.R., 1959-85

[Jan. 1 figures in millions. Figures were independently rounded without addustment to group totals. The letters A, B, C, and D denote the projection series]

Year and series	17 to 34 years	17 to 19 years	17 years	18 years	19 years
959	33.7	6, 1	1.9	2. 0 1. 9	2. 2
960	33.4	5.1	1.2	1.9	2.0
961		4 11	.9	1.2	2. 0 1. 9
.962		3. 2 3. 2	1.0	.9	1.2
	31.1	3.5	1.3	1.0	. 9
963		3.9	1.6	1.3	1.0
1964	. 00.0	0.8	1.8	1.6	1.3
1965		4. 6 5. 4	1.0	1.8	1.6
1966		5.4	2.0	1.0	1.0
967	31.5	6.0	2.1	2.0	1.8
1968	.1 31.9	6.4	2.2	2.1	2. 0 2. 1
1969		6.6	2.3	2.2	2.1
970		6.8	2.3	2.3	2.2
1971		6.8 6.9 7.0 7.2 7.3	2.33 2.32 2.44 2.45 2.55	2.0 2.1 2.2 2.3 2.3	2.2 2.3 2.3 2.2 2.4 2.4
971		8.01	2.4	2. 2	2.3
1972		7.0	2.4	2.4	5.5
1973		1 2.81	2.7	2.4	2.7
1974	34.0	7.2	2.4	2.4	2.4
1975	34.2	7.3	2.5	2.4	2.4
1976	34.7	1 7.4	2.5	2.6	2. 4
1977		7.6	2.6 2.6	2. 6 2. 5	2.5
1978		7.7	2.6	2.6	2.5
1970		7.7	2.5	2.6	2.6
1979		7.5	2.4	2.6	2.6
1980		7.3	2, 4	2.4	2.5
1981	_ 40.9	7.3	2, 4	2.4	1 2.0
1982:					
A	41.7	7.2	2. 4 2. 3 2. 1 2. 0	11	
В		7.1	2, 3	2.4	2.4
0		6.9	2,1	lf ***	
D		6.8	2. 0		1
				ľ	
1983:	42.3	7.1	9.4	2.4	h
<u>A</u>		6.9	2,3	0.0	II
В		0.9	2, 4 2, 3 2, 0	2.3	2.4
C		6.5	2,0	2.0	
D	41.5	6.3	1, 9	2.0	Į)
1984:				1	
A	42.6	7.1	2.3	2.4	2.4
B		6.8	2, 2	2.3	2.3
C	41.6	6.2	2.0	2. 0 1. 9	2.1
D] 4 <u>1.</u> 3		1.8	1.9	2.0
	-	0.0	-10	1	
1985:	42.8	7. 0	2.3	9 2	2.4
A			2, 2	2. 3 2. 2	2.3
B	42.3	6.6	7.2	2,2	2.0
C	41.4		1.9	2.0	2.0
D	_ 40.9	5, 5	1.8	1.8	1.9

Table II-11.—Estimated and projected population of "able-bodied age" in the $U.S.S.R.,\ 1959-85$

[In millions. Figures were independently rounded without adjustment to group totals. Population figures refer to Jan. I. The letters A, B, C, and D denote the projection series]

	Both	sexes	M	ale	Fen	1ale
Year and series	Population of "able- bodied age"	Net change	Population 16 to 59 years	Net change	Population 16 to 54 years	Net change
1969	119. 7 119. 4 119. 3 119. 7 120. 6 121. 7 123. 3 125. 0 126. 7 128. 6 130. 6 132. 5 134. 9 137. 2 139. 6 142. 2 144. 2 144. 2 145. 0 150. 4	-0.3 -0.1 -1.2 -1.2 1.67 1.89 1.17 1.89 2.11 1.93 2.34 2.67 2.27 2.85 2.19 1.5	55. 0 55. 2 55. 5 56. 7 57. 8 60. 0 61. 2 63. 0 66. 3 67. 0 70. 5 73. 7 75. 1 78. 6	0.1 .58 .9 1.12 1.3 1.3 1.3 1.3 1.5 1.6 1.7 1.5 1.5	64. 7 64. 2 63. 9 63. 9 64. 6 65. 0 65. 5 66. 1 66. 6 68. 5 67. 6 71. 6 73. 8 74. 9 75. 8 76. 8	-0.531 1.1 2.2 4.4 5.5 6.7 7.7 1.0 1.0 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1
1981: AB. CD.	158. 6 158. 4 158. 1 157. 9	1.7 1.5 1.2 1.0	81.6 81.5 81.3 81.2	1.5 1.4 1.2 1.1	77.0 76.9 76.7 76.7	.2
1982: B	160. 1 159. 7 159. 0 158. 6	1.5 1.3 .9 .7	83. 0 82. 8 82. 4 82. 2	1.4 1.3 1.1 1.0	77. 1 76. 9 76. 5 76. 3	2 3
AB	161. 4 160. 8 159. 6 158. 9	1.3 1.1 .6 .4	84.3 84.0 83.3 83.0	1.2 1.1 .9	77. 2 76. 9 76. 3 75. 9	3 4
A B O D	162. 6 161. 7 160. 0 159. 0	1.2 .9 .4 .1	85.3 84.9 84.0 83.5	1.0 .9 .6	77.3 76.9 76.1 75.6	2 4
1985: B C D	163. 8 162. 6 160. 3 158. 9	1.1 .8 3 1	86. 2 85. 6 84. 4 83. 7	.9 .7 .4 .2	77. 6 77. 0 75. 9 75. 2	.3 .1 1 3

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32 CURRENT ECONOMIC INDICATORS FOR THE U.S.S.R.

Table II-12.—Estimated and projected population of "retirement age" in the U.S.S.R.: 1959-85

[Jan. 1 figures in millions. Figures were independently rounded without adjustment to group totals]

Year	Both sexes	Males, 60 years old and over	Females, 55 years old and over	Year	Both sexes	Males, 60 years old and over	Females, 55 years old and over
1959	28.0	6.68 7.22 7.46 7.7.92 8.59 9.06 9.09	18, 8 19, 5 20, 2 20, 8 21, 5 22, 2 23, 6 24, 6 25, 4 26, 6 27, 0 27, 4	1970 1974 1975 1976 1977 1977 1978 1979 1980 1981 1982 1982 1984 1984	38. 4 39. 0 39. 5 40. 0 41. 0 41. 7 42. 5 43. 5 44. 6 45. 7 47. 0 48. 2	10.6 10.9 11.1 11.3 11.4 11.5 11.6 11.7 11.8 11.9 12.1 12.5 13.0	27. 7 28. 1 28. 4 28. 7 29. 0 29. 4 30. 0 30. 8 31. 7 32. 7 33. 7 34. 5 36. 2

Source: Same as table II-7.

Table II-13.—Estimated and projected total population, components of population change, and vital rates, for the U.S.S.R., by sex, 1950-85

[Absolute numbers in thousands; rates per thousand population]

Year	Popu	lation	Natural	increase	Bir	ths	Des	ths
	Jan. 1	July 1	Number	Rate	Number	Rate	Number	Rate
Both Sexes								
ESTIMATES 1950	178, 520 181, 580 1 184, 749 1 187, 943 1 197, 979 1 197, 825 201, 338 204, 913 208, 662 212, 322 1 216, 134 1 219, 763 1 223, 055	180, 050 183, 165 1 186, 349 1 189, 464 192, 685 1 190, 582 203, 126 206, 788 210, 492 214, 228 1 221, 499 1 221, 409 1 224, 667	3,060 3,169 3,199 3,031 3,411 3,435 3,513 3,575 3,749 3,660 3,812 3,620 3,922 3,224	17. 0 17. 3 17. 2 16. 0 17. 7 17. 6 17. 6 18. 1 17. 8 16. 7 14. 9	4, 805 4, 945 4, 948 4, 776 5, 125 5, 048 5, 029 5, 159 5, 240 5, 341 5, 192 4, 959 4, 865	26. 7 27. 0 26. 1 26. 6 25. 7 25. 2 25. 4 25. 3 25. 3 24. 9 23. 8 22. 4	1, 745 1, 777 1, 779 1, 724 1, 714 1, 613 1, 516 1, 584 1, 491 1, 503 1, 663 1, 667 1, 663	9.7 9.7 9.4 9.1 8.9 8.2 7.6 7.2 7.5 2,7.3
PROJECTIONS								
Series A 1964 1965 1966 1907 1908 1969 1970 1971 1973 1974 1975 1976 1977 1978 1978 1979 1980 1981 1982 1983 1984	1 226, 279 229, 521 232, 671 235, 735 244, 812 244, 812 244, 812 247, 908 251, 435 251, 705 264, 663 268, 237 279, 426 283, 296 287, 249 287, 249 299, 292 259, 256	227, 900 231, 066 234, 204 237, 247 240, 263 243, 291 246, 360 249, 498 252, 720 256, 029 259, 428 262, 907 276, 083 273, 757 277, 525 281, 361 285, 269 289, 238 293, 245 297, 274	3, 242 3, 150 3, 066 3, 019 3, 014 3, 042 3, 096 3, 179 3, 265 3, 353 3, 445 3, 652 3, 736 3, 871 3, 874 3, 992 4, 022 4, 026	14. 2 13. 6 13. 1 12. 7 12. 5 12. 6 12. 7 13. 1 13. 4 13. 5 13. 8 13. 8 13. 8 13. 8 13. 6	4, 895 4, 814 4, 743 4, 706 4, 717 4, 709 4, 853 4, 961 5, 202 5, 334 5, 436 6, 542 5, 654 5, 670 5, 888 6, 259 6, 218 6, 259 6, 313	21. 5 20. 8 20. 3 19. 8 19. 6 19. 6 19. 7 10. 9 20. 1 20. 5 20. 7 20. 8 20. 9 21. 1 21. 2 21. 3 21. 3 21. 3 21. 3 21. 3 21. 3	1, 653 1, 664 1, 677 1, 687 1, 703 1, 727 1, 757 1, 782 1, 813 1, 849 1, 923 1, 968 2, 002 2, 034 2, 088 2, 127 2, 152 2, 196 2, 237 2, 277	7.3 7.2 7.11 7.11 7.12 7.2 7.3 7.4 7.6 7.6 7.6 7.6 7.6

Footnotes on p. 33.

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Table II-13.—Estimated and projected total population, components of population change, and vital rates, for the U.S.S.R., by sex, 1950-85—Continued

[Absolute numbers in thousands; rates per thousand population]

Year	Popula	ation	Natural i	ncrease	Bir	ths	Dea	ths
1 car	Jan. 1	July 1	Number	Rate	Number	Rate	Number	Rate
BOTH SEXES								
PROJECTIONS			ł				. 1	
Series B	Ì					00.1	1 450	7.2
Series S	1 226, 279 229, 336	227, 808 230, 805 233, 684	3,057 2,937	$13.4 \\ 12.7$	4,707 4,593	20.7 19.9	1,650 1,656	7.2
1966	232, 273	233, 684	2,822 2,745	12.1	4,491	19.2 18.7	1,669 1,678	7.1
1967	235, 095 237, 840	236, 468 239, 194	9 708 1	11.6 11.3	4, 423 4, 400	18.4	1,692	7.1 7.1
1969	240, 548	241.898	2,699 1	11. 2	4,416	18.3	1, 692 1, 717 1, 748	7.1
1970	243, 247	244,004	2,713	11.1 11.1	4,461 4,526	18.2 18.3	1 1.770 1	$7.1 \\ 7.2$
1971	245, 960 248, 716	244,004 247,338 250,117	2,756 2,801	11. 2	4,600	18.4	1,799	7.2 7.2 7.3 7.3
1972 1973 1974 1075 1976 1977 1978 1979 1980	251, 517 254, 360 257, 246 260, 189 263, 189	252, 939 255, 803 258, 718 261, 689 264, 719	2,843	$\frac{11.2}{11.3}$	4,678 4,763	18.5 18.6	1,835 1,877	7.3 7.3
1974	254,360 257 248	255, 805 258, 718	2,886 2,943	11.4	4,854	18.8	1,911	7.4
1978	260, 189	261, 689	3,000	11. 5	4,948	18.9	1,948	7.4 7.5
1977	263, 189	264, 719 267, 814	3,060 3,130	11.6 11.7	5,048 5,152	19.1 19.2	1,988 2,022	7.6
1978	266, 249 269, 379	270 073	3.188	11.8	5. 257	19.4	2,069	7.6
1980	272, 567	274, 188	3,242	11.8 11.9	5, 355 5, 445	19.5 19.6	2, 113 2, 141	7.7 7.7
1981 1982	275, 809 279, 113	274, 188 277, 461 280, 785	3,304 3,344	11.9	5,525	19.7	2, 141 2, 181	7.8
1083	282, 457	284, 139 287, 507	3,364 3,371	11.8	5,589	19.7	2, 225 2, 266	7.8 7.9
1984	285, 821 289, 192	287, 507	3,371	11.7	5,637	19.6	2,200	
1985	200, 102							
Series C	1 226, 279	227,624	2,689	11.8	4, 330	19.0	1,641	7.2 7.1
Series C 1964	228, 968	230, 232	2, 527 2, 527 2, 370 2, 249 2, 162 2, 100 2, 053	11.0	4,170	18.1	1,643	7.1 7.1
1966	231, 495	232, 680	2,370	10.2 9.6	4, 023 3, 910	17.3 16.6	1,653 1,661	7.1
1967	233, 865 236, 114	234, 990 237, 195	2, 249	9.1	3,837	16.2	1,675	7.1
1969	236, 114 238, 276 240, 376	239, 326 241, 403	2, 100	8.8	3,837 3,798 3,783	15.9	1,698 1,730	7.1 7.2
1970	240, 378	241,403	2,053	8. 5 8. 4	3,784	15.7 15.5	1,750	7.2
1971	242, 429 244, 463	245, 471	2,034 2,015	8.2	3,790	15. 4	1,775	7.2
1971 1972 1973 1973 1974 1975 1976 1976 1977 1978 1980	246, 478 248, 462 250, 421	243, 446 245, 471 247, 470 249, 442	1,984	8.0 7.9	3,798 3,810	15.3 15.3	1,814 1,851	7.3 7.4
1974	248, 402	251, 419	1,959 1,996	7.9	1 3.883	15.4	1, 887	7.5
1976	252, 417	253, 435	2,036	8.0	3.958	15.6 15.8	1,922 1,968	7.6
1977	254, 453 256, 525	255, 489 257, 586	2,072 2,122	8.1 8.2	4, 038 4, 121	16.0	1,999	7.8
1979	258, 647	259,729	2, 163	8.3	1 4,208	16.2	2,043	7.9 8.0
1980	260,810	261, 907 264, 124	2, 194 2, 239	8.4 8.5	4, 284 4, 356	16. 4 16. 5	2,090 2,117	8.0
1981 1982	265, 243	266, 375	2,264 2,272	8.5	4,420	16.6	2, 156	8.1
1983	267, 507	266, 375 268, 643 270, 913	2,272 2,267	8. 5 8. 4	4,471 4,509	16. 6 16. 6		8.2
1984	263, 004 265, 243 267, 507 269, 779 272, 046	270,913	2,207		2,000			
					Ì		i	
Series D	228, 279	227, 531	2,504	11.0	4,142 3,931 3,736	18. 2 17. 1	1,638	7. 2 7. 1
1984 1965			2,504 2,296 2,091	10.0	3,931	16.1	1,635 1,645	7.1
1966	231,079 233,170	234, 132	1,923	8.2	3,574	15.8	1,651	7.1
1968	235,093	285, 987	1,923 1,787 1,670	7. 6 7. 0	8, 450 3, 856	14. 6 14. 1		7. 0 7. 1
1969	236, 880 288, 550	237,716	1,568	6.6	3.284	13.7	1 716	7.9
1965	240, 118 241, 606	229, 931 232, 125 234, 132 285, 987 237, 715 239, 334 240, 862 242, 310	1,488	6.2	3, 223	13.4	1,735	7. 2 7. 2 7. 3
1972	- 241,608	242, 310 243, 669	1, 408 1, 310	5.8 5.4		13. 1 12. 8	1,797	7.4
1974	243, 014 244, 324	244, 930	1,211	4.9	3.048	12.4	1,00/	1.0
1975	245, 535	246, 150	1,240	5. 0 5. 1	3, 107	12.6 12.8	1,867 1,902	7.6
1975 1976 1977	246,776	247, 408 248, 683	1, 285	5. 2	3, 231	13. 0 13. 1	1,946	7.8
1977 1978 1979	249.020	248, 683 249, 982 251, 311 252, 661	1,285 1,314	5. 2 5. 3	3, 231 3, 297	13. 9 13. 4	1,983	7.9
1070	250,639 251,983	251, 311	1,344 1,356	5.8 5.4	3, 364 3, 427	13.4	2,020 2,071	8.2

¹ Estimates of the total population for 1962, 1953, 1966, and 1961 through 1964 shown here are somewhat different from the official Soylot estimates for these years because the official figures imply unexplained residuals. These residuals for years 1960–62 are as follows: 1960, —34,000; 1961, +15,000; and 1962, +85,000. The projections were prepared prior to the release of the vital rates for 1963. The official rates for 1963 are: natural increase, 14.0; birth, 21.2; and death, 7.2. Absolute numbers of births and deaths have not yet been published.

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Table II-13.—Estimated and projected total population, components of population change, and vital rates, for the U.S.S.R., by sex, 1950-85.—Continued

[Absolute numbers in thousands; rates per thousand population]

LADS	olute nui	nbers in t	housands	; rates p	er thousa	nd popul:	ation		
Year	Pop	ulation	Natura	l increase	Bi	rths	Der	aths	
	Jan. 1	July 1	Number	Rate	Number	Rate	Number	Rate	
BOTH SEXES PROJECTIONS Series D 1981 1982 1983 1984 1985	254,722 256 125	254, 031 255, 424 255, 822 258, 212	1,383 1,403 1,394 1,385	5. 4 5. 5 5. 4 5. 4	3, 485 3, 536 3, 577 3, 608	13. 7 13. 8 13. 9 14. 0	2, 102 2, 133 2, 183 2, 223	8.3 8.4 8.5 8.6	
Male			*			~			
BSTIMATES 1950 1951 1951 1952 1963 1954 1955 1956 1957 1950 1900 1900 1962	77, 896 79, 498 81, 167 82, 861 84, 478 86, 300 88, 140 90, 024 91, 953 93, 975 95, 913 97, 939 99, 878 101, 643	78, 697 80, 333 82, 014 83, 670 85, 389 87, 220 89, 982 90, 989 92, 964 94, 944 96, 926 98, 999 100, 761 102, 515	1, 602 1, 669 1, 664 1, 617 1, 822 1, 840 1, 884 1, 929 2, 022 1, 938 2, 026 1, 539 1, 765 1, 744	20. 4 20. 8 20. 7 19. 3 21. 3 21. 1 21. 2 21. 8 20. 4 20. 9 19. 6 17. 5 17. 0	2, 475 2, 547 2, 548 2, 449 2, 539 2, 550 2, 657 2, 689 2, 711 2, 751 2, 674 2, 554 2, 555	31. 4 31. 7 31. 1 29. 3 30. 9 29. 8 29. 1 29. 2 29. 0 28. 6 28. 4 27. 0 25. 3 24. 4	873 878 854 832 817 760 706 728 677 773 725 735 789 761	11. 1 10. 9 10. 4 9. 9 9. 6 8. 7 7. 3 8. 0 7. 3 8. 7 7. 4	
PROJECTIONS Series A									
1964 1965 1966 1967 1968 1969 1969 1970 1971 1972 1973 1974 1975 1976 1977 1979 1980 1980 1982 1983 1984	103, 387 105, 148 106, 867 108, 550 110, 207 1113, 567 115, 274 117, 044 118, 861 1120, 733 122, 658 122, 658 123, 917 132, 917 132, 917 132, 917 132, 917 132, 917 131, 917 144, 660	104, 268 106, 008 107, 709 109, 379 111, 039 112, 714 114, 416 116, 159 117, 953 119, 797 121, 696 123, 643 125, 631 127, 660 129, 735 131, 851 134, 003 136, 195 138, 419 140, 664 142, 926	1, 751 1, 719 1, 683 1, 664 1, 717 1, 717 1, 872 1, 969 2, 032 2, 032 2, 133 2, 171 2, 213 2, 285 2, 269	16. 9 16. 2 15. 6 15. 1 15. 0 15. 0 15. 2 15. 4 15. 6 15. 8 15. 9 16. 0 16. 1 16. 2 16. 2 16. 2 16. 2 16. 2 16. 2	2, 521 2, 479 2, 442 2, 429 2, 452 409 2, 555 2, 515 2, 679 2, 800 2, 854 409 2, 912 2, 912 2, 913 3, 186 3, 225 3, 251	24, 2 23, 4 22, 7 22, 2 21, 9 21, 8 21, 8 22, 0 22, 2 22, 4 22, 6 22, 6 22, 7 22, 8 23, 1 23, 1 23, 1 23, 0 22, 9 22, 9 22, 9	760 760 760 767 765 770 782 785 807 822 831 847 860 873 899 918 927 961 968 982	7. 2 7. 1 7. 0.9 6.8 6.8 6.7 6.7 6.7 6.9 6.9 6.9	
Series B 1964	103, 387 105, 063 106, 663 108, 220 109, 737 111, 243 114, 273 114, 273 114, 273 119, 016 120, 664 122, 329 124, 041 125, 788 127, 578 131, 243 133, 125 135, 028 133, 125 135, 028 133, 873	104, 220 105, 858 107, 442 108, 979 110, 490 111, 998 113, 513 115, 049 116, 615 118, 211 119, 835 121, 492 123, 185 124, 915 126, 681 128, 485 130, 319 132, 184 134, 077 135, 987 137, 909	1, 668 1, 510 1, 557 1, 517 1, 506 1, 510 1, 520 1, 550 1, 611 1, 688 1, 611 1, 756 1, 712 1, 786 1, 848 1, 884 1, 883 1, 893 1, 917 1, 928	16. 0 15. 2 14. 5 13. 6 13. 6 13. 5 13. 6 13. 7 13. 6 13. 7 14. 1 14. 0 14. 1 14. 2 14. 2 14. 2 14. 2	2, 424 2, 365 2, 313 2, 274 2, 266 2, 274 2, 331 2, 469 2, 463 2, 663 2, 707 2, 864 2, 663 2, 707 2, 804 2, 803	23. 3 22. 3 21. 5 20. 9 20. 3 20. 3 20. 3 20. 3 20. 4 20. 5 20. 6 20. 7 20. 6 20. 7 20. 9 21. 1 21. 2 21. 2 21. 2 21. 2	768 765 761 760 764 777 779 780 798 815 825 836 853 886 910 922 942 961 975	8 7.10 7.09 6.88 6.88 6.88 6.88 6.88 7.00 7.11	

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Table II-13.—Estimated and projected total population, components of population change, and vital rates, for the U.S.S.R., by sex, 1950-85.—Continued

[Absolute numbers in thousands; rates per thousand population]

Vaar	Popul	ation	Natural i	increase	Birt	hs	Deat	hs
Year	Jan. 1	July 1	Number	Rate	Number	Rate	Number	Rate
MALE								
PROJETIONS								
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	103, 387 104, 864 106, 263 107, 589 108, 850 110, 076 111, 278 112, 459 113, 641 114, 817 115, 988 117, 149 118, 337 119, 555 120, 794 122, 062 123, 387 124, 667 126, 000	104, 128 105, 564 106, 926 108, 220 100, 463 110, 677 111, 869 113, 050 114, 229 115, 403 116, 560 117, 743 118, 946 120, 175 121, 428 122, 710 124, 012 125, 334 126, 675	1, 477 1, 390 1, 326 1, 261 1, 262 1, 202 1, 181 1, 182 1, 176 1, 171 1, 161 1, 188 1, 218 1, 218 1, 229 1, 268 1, 310 1, 333 1, 3350	14. 2 13. 3 12. 4 11. 7 11. 2 10. 9 10. 5 10. 3 10. 1 10. 0 10. 1 10. 3 10. 4 10. 6 10. 6 10. 3	2, 230 2, 147 2, 072 2, 014 1, 976 1, 948 1, 949 1, 952 2, 000 2, 038 2, 080 2, 122 2, 166 2, 206 2, 243 2, 276 2, 302 2, 332	21. 4 20. 3 19. 4 18. 6 18. 1 17. 7 17. 4 17. 2 17. 1 16. 9 17. 1 17. 3 17. 5 17. 7 17. 8 17. 0 18. 0	753 748 746 753 750 754 767 767 767 785 801 812 820 841 854 871 896 910	7. 2 7. 10 7. 0 6. 8 6. 8 6. 8 6. 8 6. 8 6. 9 7. 0 7. 12 7. 3
1982 1983 1984 1984	127, 350 128, 707 130, 069	125, 334 126, 675 128, 029 129, 388	1,357 1,362	10.6 10.5	2, 302 2, 322	18.0 17.9	945 960	7. 4 7. 4
Series D 1964 1965 1966 1967 1968 1969 1970 1970 1971 1972 1973 1974 1975 1976 1977 1978 1978 1979 1988 1981 1982 1983 1984 1985	103, 387 104, 780 106, 050 107, 232 108, 326 109, 359 110, 340 111, 273 112, 173 113, 038 114, 639 116, 439 116, 430 117, 947 118, 823 119, 701 120, 596 121, 594 112, 594	104, 078 105, 410 106, 641 107, 779 108, 843 109, 850 111, 807 111, 723 112, 906 113, 450 114, 251 115, 039 116, 880 117, 521 118, 885 117, 521 118, 885 119, 262 120, 149 121, 967	1, 382 1, 281 1, 182 1, 094 1, 083 981 983 900 821 777 800 821 835 876 878 878 896 908	13. 3 12. 2 11. 1 10. 2 9. 5 8. 9 8. 4 1 7. 7. 8 6. 8 7. 7. 1 7. 2 7. 7. 4 7. 4 7. 4 7. 4	2, 133 2, 024 1, 924 1, 824 1, 841 1, 777 1, 728 1, 660 1, 630 1, 630 1, 630 1, 631 1, 664 1, 688 1, 785 1, 785 1, 785 1, 821 1, 821 1, 828	20. 5 19. 2 18. 0 17. 1 16. 3 15. 7 15. 3 14. 9 14. 1 13. 7 14. 1 14. 4 14. 8 14. 8 14. 9 15. 1	810 829 846 856 887 900 913 937	7.0 7.0 6.88 6.88 6.88 6.7.7.1 7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7
BESTIMATES 1950	100, 624 102, 082 103, 582 106, 501 106, 501 109, 685 111, 314 112, 960 114, 687 116, 409 118, 195 119, 885 121, 412	101, 353 102, 832 104, 335 105, 794 107, 296 108, 888 110, 500 112, 137 113, 824 115, 548 117, 302 119, 040 120, 649	1,640	14. 4 14. 6 14. 4 13. 4 14. 8 14. 6 14. 7 15. 2 14. 9 14. 2 14. 2 12. 7	2,553 2,590 2,518 2,405	23. 0 23. 3 23. 0 21. 8 23. 2 22. 5 22. 1 22. 3 22. 3 22. 1 21. 2 19. 3	899 895 892 897 853 811 856 814 831 804 828 878	8.6 8.7 8.4 7.8 7.9 7.9 7.9 7.9 7.9

Table II-13.—Estimated and projected total population, components of population change, and vital rates, for the U.S.S.R., by sex, 1950-85.—Continued

[Absolute numbers in thousands; rates per thousand population]

Year	Por	pulation	Natura	al increase	Bi	irths	De	aths
	Jan. 1	July 1	Number	Rate	Number	Rate	Number	Rate
FEMALE								
PROJECTIONS	ļ					1		ŀ
Series A						1		
1964 1965	122, 892 124, 373	2 10K 000	1,481 1,431	12.0 11.4	2,374 2,335 2,300	19. 2 18. 7 18. 2 17. 8	893 904	7.2
1966 1967 1968	125, 804 127, 187 128, 549 129, 899	128, 496 127, 868 129, 224	1,383	10.9	2,300	18.2	917	7.2 7.2 7.3 7.3 7.5 7.5 7.5 7.7 7.8
1968	127, 187	127, 868	1, 362 1, 350	10.7 10.4	1 2 2 2 2	17.8	920	7. 2
1969	129, 899	130, 577	1,356	10. 4	2, 200	17. 7 17. 7	938 957	7.3
1969			1, 379	10.5	2, 288 2, 313 2, 354 2, 406 2, 463	17. 7 17. 8	975	7, 4
1972	132, 634 134, 043 135, 491 136, 972	133, 339 134, 767 136, 232 137, 732	1, 409 1, 448	10.6 10.7	2,406	18. 0 18. 3	997 1, 015	7. 5
1973	135, 491	136, 232	1, 481 1, 520	10.9	2, 463 2, 523 2, 587 2, 686 2, 688 2, 742 2, 799 2, 856 2, 909	18.5	1,018	7. 5
1974	136, 972	137, 732	1, 520 1, 544	11.0 11.1	2, 587	18.8	1 1.067	7. 7
1976	138, 492 140, 036 141, 603 143, 203 144, 841	140, 820	1, 567	111.1	2,688	18. 9 19. 1	1, 092 1, 121 1, 142	7.8
1977	141, 603	142, 403 144, 022	1 600	11. 2	2, 742	19. 3	1, 142	8. 0 8. 0
1979	144, 841	144, 022	1,638 1,667 1,700	11.4 11.4	2,799	19.4	1, 161	8.1
1980	146, 508	147, 358	1,700	11.5	2, 909	19. 6 19. 7	1, 189	8.2
1981	148, 208	149, 075	1.733	11.6		19.8	1, 209 1, 225	8. 2
1972 1973 1974 1974 1975 1976 1977 1977 1978 1979 1980 1981 1982 1983	151,698	150, 820 152, 582 154, 849	1, 757 1, 767 1, 767	11.6 11.6	3, 002 3, 036	19. 9 19. 9	1, 245 1, 269	8.1 8.2 8.2 8.2 8.3 8.3
1984 1985	146, 508 148, 208 149, 941 151, 698 153, 465 155, 232	154, 849	1, 767	11.4	3,062	19.8	1, 295	8.4
Series B 1964	122, 892	123, 588	1,391 1,327	11.3	2, 283 2, 228 2, 178	18. 5	892	7. 2
1966	124, 283 125, 610	124, 947 126, 243		10.6 10.0	2, 228 2, 178	17.8 17.3	901 913	7. 2 7. 2 7. 2 7. 2 7. 2 7. 3
1967	126, 875 128, 103 129, 305	127, 489 128, 704 129, 900	1.228	9.6	2, 145 2, 134	16.8	917	7. 2
1969	128, 103	128,704	1.202	9.3 9.2	2, 134	16.6	932	7. 2
1970		131, 091 132, 289 133, 502	1, 189 1, 193	9.1	2, 142 2, 164 2, 195	16.5 16.5	953 971	7.3
1971	131, 687 132, 891 134, 112 135, 344	132,289	1 20/4	9.1	2, 195	16.6	991	7. 4 7. 5
1973	134, 112	134, 728	1, 221 1, 232 1, 248 1, 268	9.1 9.1	2, 231	16.7 16.8	1,010 1,037	7.6 7.7 7.8
1974	135, 344	134, 728 135, 968	1, 248	9.2	2,310	17.0	1 1 062	7. 7
1974 1975 1976 1977	136, 592 137, 860 139, 148 140, 461	137, 226	1, 268 1, 288	9. 2 9. 2 9. 3	2, 231 2, 269 2, 310 2, 354 2, 400	17. 2 17. 3	1.086	7. 9
1977	139, 148	139, 805	1.313	9.3	2,400 2,448	17. 3 17. 5	1,112 1,135	8.0 8.1
1977 1979 1980 1981 1982	140, 461 141, 805	135, 908 137, 226 138, 504 139, 805 141, 133 142, 489 143, 869	1,344	9.5	2,499	17.7	1,155	8. 2 8. 3
1980	143 179	142, 489	1,367 1,394	9.6 9.7	2,550 2,597	17. 9 18. 1	1 183	8.3 8.4
1981	144, 566		1,422	9.8	2,641	18. 2	1,203 1,219 1,239	8.4 8.4
1982	144, 566 145, 983 147, 429 148, 876	146, 709 148, 153 149, 598	1, 441	9.8	2,680	18.3	1,239	8.4
1984	148, 876	149, 598	1, 447 1, 443	9.6	2,711 2,734	18.3 18.3	1, 264 1, 291	8. 5 8. 6
1985	150,319			4 Mil.		10,0	1, 201	0.0
Series C								
1964	122,892	123, 498 124, 668	1, 212	9.8	2, 100	17.0	888.	7. 2
Series C 1964	124, 104 125, 232	124,668	1, 128 1, 044	9.0	2, 100 2, 023	16. 2	895	7. 2
1967	126, 276 127, 264 128, 200 129, 098	125, 754 126, 770 127, 732 128, 649 129, 534	988	8.3 7.8	1,951 1,896	15. 5 15. 0	907 908	7. 2
1968	127, 264	127, 732	936	7.3	1,861	14, 6	925	7. 2
1970	129, 098	128, 049	898 872	7. 0 6. 7	1,842 1,835	14.3	944	7. 3
1971	129, 970		852	6. 5	1,835	14. 2 14. 1	963	7.4
972	130, 822 131, 661	131, 242	839 813	6.4	1, 838	14.0	999	7. 6
974	132, 474	132, 873	798	6. 2 6. 0	1,842 1,848	13. 9 13. 9	1, 029 1, 050	7.8
978 978 976 976 977 978	132, 474 133, 272	131, 242 132, 068 132, 873 133, 676	808	6.0	1, 883 1, 920	14. 1	1, 075	77.77.77.77.788888888888888888888888888
977	134, 080 134, 898		818 833	6.1	1,920 1,958	14.3	1. 102	8.2
978	135, 731 136, 585	135, 815 136, 158 137, 019 137, 895	854	6.3	1.000	14.5 14.7	1, 125 1, 145	8.3
979 980 981 982	136, 585	137, 019	868	6.3	2, 040 2, 078 2, 113 2, 144	14.9	1 172	8.6
981	137, 453 138, 337 139, 243 140, 157	137, 895	884 906	6. 4 6. 5	2,078	15.1	1, 194	8. 7 8. 7
982	139, 243	139, 700	914	6. 5	2, 113	15. 2 15. 3	1, 207	8.7 8.8
	140, 157 141, 072	138, 790 139, 700 140, 615 141, 525	915	6, 5	2, 169 2, 187	15.4	1, 194 1, 207 1, 230 1, 254	8.9
984 985	141, 977	171,020	905	6. 4	2, 187	15. 5	1, 282	9. 1

Table II-13.—Estimated and projected total population, components of population change, and vital rates, for the U.S.S.R., by sex, 1950-85—Continued

[Absolute numbers in thousands; ratios per thousand population]

Year	Popul	lation	Natural:	increase	Birt	hs	Dear	ths
2.002	Jan. 1	July 1	Number	Rate	Number	Rate	Number	Rate
FEMALE PROJECTIONS Series D 1964	122, 892 124, 014 125, 029 125, 938 126, 767 127, 521 128, 210 128, 845 129, 976 130, 462 130, 896 131, 336 131, 780 132, 230 132, 692 133, 693 134, 621 135, 637	123, 453 124, 522 125, 484 127, 186 127, 186 129, 189 129, 705 130, 219 130, 679 131, 116 131, 558 132, 461 132, 926 133, 389 133, 389 133, 389 134, 374 134, 366	1, 122 1, 015 909 829 754 689 635 588 543 486 444 450 462 468 478 488 488 488 489 477	9.8.7.6.5.5.4.4.4.5.5.6.0.7.6.5.3.3.3.3.3.3.3.3.3.3.3.3.3.3.3.3.3.3	2, 009 1, 907 1, 812 1, 733 1, 673 1, 593 1, 593 1, 535 1, 537 1, 536 1,	16. 3 15. 3 14. 4 13. 7 13. 2 12. 7 12. 1 11. 6 11. 6 11. 7 11. 9 12. 3 12. 5 12. 6 12. 8 12. 8	887 892 903 904 919 939 958 976 902 1, 021 1, 104 1, 107 1, 117 1, 137 1, 164 1, 120 1, 202 1, 202 1, 202 1, 202 1, 202 1, 202 1, 203 1, 204 1, 204 1, 204 1, 204 1, 205 1, 206 1, 207 1, 208 1, 208 1	7.22 7.22 7.22 7.22 7.35 7.66 7.88 8.11 8.85 8.89 9.11

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1860 1860 1861 1962 1963 1964 1965 1966 1967 1968 1969 1970 1971 1860 1860 1961 1962 1963 1964 1965 1966 1967 1968 1969 1970 1971 1860 1860 1861 1962 1963 1964 1965 1966 1967 1968 1969 1970 1971 1860 212,822 216,134 219,763 222,055 226,239 221,777 226,546 226,249 226,249 226,249 22,316 24,255 22,318 22,465 24,664 24,614 22,249 22,249 22,249 22,249 22,249 22,249 22,317 22,463 22,181 22,465 24,616 24,249 22,249

1984 1985	295, 256 299, 292 283, 192 289, 173 289, 192 209, 173 046 257, 519 258, 904	29, 903 26, 699 21, 361 21, 667 17, 334	27, 081 24, 179 19, 344 15, 475 15, 797	24, 116 24, 697 21, 999 22, 364 18, 383 18, 419 15, 648 15, 367	22, 936 22, 861 21, 724 21, 488 19, 471 19,000 18, 090 17, 371		23, 764 24, 017 21, 620 22, 155 14, 832 15, 900 19, 376 16, 916 16, 916 16, 831 17, 095 11, 638 11, 63
1983	291, 234 282, 457 267, 507	29, 409 26, 250 21, 009 16, 807	26, 502 23, 694 19, 009 15, 273	23, 614 21, 701 18, 395 15, 960	23, 028 20, 413 19, 404	24, 573	23, 182 21, 289 18, 750 16, 987 16, 987 8, 404 8, 404 8, 407
1982	287, 242 279, 113 265, 243 254, 722	28, 871 25, 777 20, 621 16, 496	25, 916 23, 236 18, 751 15, 193	23, 218 21, 496 18, 483 16, 329	23, 211 22, 578 21, 362 20, 678	24, 697	22,842 11,668 117,412 17,412 14,848 14,848 8,888 8,737 160
1981	283, 296 275, 809 283, 004 283, 339	28, 306 25, 274 20, 219 16, 176	25, 325 22, 803 18, 563 15, 234	22, 968 21, 426 18, 683 16, 798	8,8,8,8,8,8,8,8,8,8,8,8,8,8,8,8,8,8,8,	24, 472	22, 600 12, 982 12, 136 16, 906 17, 938 17, 183 7, 92, 211
1980	279, 425 272, 567 260, 810 251, 983	27, 738 24, 767 19, 815 15, 850	24, 730 22, 396 18, 444 15, 391	22, 886 21, 513 19, 021 17, 392	24,045 28,865 28,504 29,324	24, 093	22, 25, 25, 25, 26, 26, 26, 26, 26, 26, 26, 26, 26, 26
1979	275, 625 269, 379 258, 647 250, 639	27, 180 24, 267 19, 413 15, 530	24, 151 22, 031 18, 409 15, 666	22, 964 21, 751 19, 495 18, 113	24,344	23,842	21, 715 15, 020 16, 054 19, 661 17, 334 17, 334 17, 755 10, 715 9, 719 7, 270
1978	271, 889 266, 249 256, 525 249, 325	26, 600 23, 783 19, 081 15, 331	23, 64 9 21, 733 18, 423 15, 982	22, 152 22, 152 19, 440 19, 431	24, 637	23, 260	21, 38, 22, 38, 22, 38, 22, 38, 38, 38, 38, 38, 38, 38, 38, 38, 38
1977	268, 237 263, 189 264, 453 248, 040	26, 016 23, 326 18, 824 15, 253	23, 252 21, 528 18, 511 16, 354	23, 245 22, 611 21, 394 20, 709	24,762	22, 922	20, 406 11, 744 11, 685 11, 843 11, 855
1976	264, 663 260, 189 252, 417 246, 775	25, 431 22, 895 18, 637 15, 293	23, 003 21, 458 18, 711 16, 823	22,23,82 22,461 22,461	24, 538	22, 683	19,074 12,279 17,174 17,174 18,381 19,289 10,129 6,129 6,151
1975	261, 150 257, 246 250, 421 245, 585	24, 837 22, 490 18, 522 15, 451	22, 922 21, 546 19, 050 17, 416	28,88,8 8,88,88 14,88,88	24, 160	22, 336	11, 23, 23, 24, 25, 26, 27, 28, 25, 25, 25, 25, 25, 25, 25, 25, 25, 25
1974	257, 705 254, 360 248, 462 244, 324	24, 259 22, 128 18, 487 15, 736	22, 998 21, 784 19, 527 18, 140	24, 383	23, 911	21,800	15, 100 16, 173 19, 862 17, 615 10, 524 10, 638 10, 688 10, 68
1973	254, 352 251, 517 246, 478 243, 014	23, 739 21, 832 18, 507 16, 053	23, 095 22, 187 20, 473 19, 463	24,679	33,329	21,473	2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2
Series and age	All ages: BOTH SEXES All ages: B C C D D Trador 5 grosses	Adv. 6 years. B B C C C C D Vests:	A A B B B C C D D D D D D D D D D D D D D D	A B C D D 15 to 19 years:	A B B C C C C C C C C C C C C C C C C C	A W O C	25 to 29 years 30 to 24 years 35 to 39 years 40 to 44 years 45 to 49 years 55 to 69 years 55 to 69 years 65 to 69 years 77 to 74 years

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TABLE II-14.—Es		imated and projected population of the	ected pop	nulation		U.S.S.R.,	by 5-year	age gro	nps and	age groups and sex, Jan.		7-86-C	1, 1959-85Continued	
Series and age	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972
All ages: MALE A	93,975	95, 913	97, 939	99, 878	101, 643	103, 387	105,148 105,053 104,864 104,769	106, 867 106, 663 106, 263 106, 050	108, 550 108, 220 107, 589 107, 232	110, 207 109, 737 108, 850 108, 326	111, 871 111, 243 110, 076 109, 369	113, 557 112, 753 111, 278 110, 340	115, 274 114, 273 112, 459 111, 273	117, 044 115, 825 113, 641 112, 173
Under 6 years: A B C O	12, 424	12, 552	12, 760	12, 884	12, 805	12, 646	12,480 12,385 12,196 12,101	12, 231 12, 027 11, 627 11, 414	12, 032 11, 702 11, 071 10, 714	11, 931 11, 461 10, 574 10, 050	11, 880 11, 252 10, 085 9, 368	11, 838 11, 127 9, 838 8, 993	11, 877 11, 078 9, 659 8, 683	12,003 11,111 9,552 8,438
5 to 4 years: A D C D 10 to 14 years:	11, 196	11, 474	11, 660	11, 783	11, 977	12, 285	12, 427	12, 632	12, 751	12, 688	12, 639	12, 383 12, 290 12, 104 12, 011	12, 142 11, 940 11, 545 11, 335	11,951 11,624 10,999 10,645
A S	2,749	8,841	8,784	10, 469	10, 974	11,146	11, 425	11,610	11,741	11,925	12, 233	12, 378	12, 588	12, 712
15 to 19 years: A B C C D D 20 to 24 years:	8,272	7,078	6, 302	6, 034	6, 596	7,720	8,812	9,754	10, 439	10, 944	11, 116	11,395	11, 580	11,711
A B C	10,049	10, 592	10,900	10, 756	9, 651	8, 201	7,022	6,256	5, 997	6, 559	7, 679	8, 767	9,707	10, 390
D. 55 to 29 years. 30 to 34 years. 38 to 39 years. 44 to 44 years. 45 to 49 years. 55 to 59 years. 55 to 69 years. 66 to 69 years. 77 to 74 years and over.	8,899. 8,606. 1,12,4,605. 1,171. 1,23.	8.82.82.83.83.84.83.84.83.84.83.84.83.93.93.93.93.93.93.93.93.93.93.93.93.93	\$\pi\$ \pi\$ \pi\$ \pi\$ \pi\$ \pi\$ \pi\$ \pi\$	8,827,83,44,83,71,11,11,11,11,11,11,11,11,11,11,11,11,	99 486 747 886 747 886 747 866 711 867 711 983 711 1983 711 1983	9.9 94.73 7.93 7.93 7.93 7.93 7.93 7.93 7.93 7	10, 490 8, 8, 8, 9, 652 10, 771 1, 2, 2, 2, 838 1, 664 1, 664	10, 738 8, 837 10, 23, 44, 938 837 10, 23, 24, 23, 24, 24, 24, 24, 24, 24, 24, 24, 24, 24	10,656 88,866 10,50,00,00,00 10,00 1	\$288.548.448.414 \$288.545.888.44 \$6.548.888.88 \$4.888.888.88 \$4.888.888	\$20.00.00.00.00.00.00.00.00.00.00.00.00.0	6.01 6.01 6.02 6.02 6.03	10,688 10,688 10,688 10,787 10,787 11,588 10,006 11,156 10,006	0,010,000,000,000,000,000,000,000,000,0
			-											

Series and age	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985
MALE A B	118,861 117,405 114,817	120, 733 119, 016 115, 988	122,658 120,654 117,149	124, 627 122, 329 118, 337 115, 439	126, 634 124, 041 119, 555 116, 260	128, 686 125, 788 120, 794	130, 784 127, 574 122, 062 117, 947	132, 917 129, 395 123, 357 118, 823	135,088 131,243 124,667 119,701	137, 301 133, 125 126, 000 120, 596	139, 536 135, 028 127, 350 121, 504	141, 791 136, 945 128, 707 122, 409	144, 060 138, 873 130, 069 123, 317
Onder 6 years:						_ ,,,,,,,	13, 970 12, 472 9, 977 7, 981		14, 548 12, 990 10, 392 8, 314	14, 840 13, 249 10, 598 8, 479	15, 114 13, 495 10, 797 8, 638	15, 368 13, 721 10, 978 8, 781	15, 591 13, 920 11, 135 8, 909
5 to 9 years: A C C C C C C C C C C C C C C C C C C	11,855 11,339 10,509		11,19,88 18,78 18,78 18,78			12,146 11,161 9,461 8,207	12, 406 11, 316 9, 456 8, 046	12, 704 11, 505 9, 475 7, 907	13, 012 11, 716 9, 538 7, 827	13,316 11,939 9,634 7,806	13, 619 12, 176 9, 768 7, 849	13,917 12,426 9,941 7,952	14,206 12,684 10,148 8,118
10 to 14 years:	12,653		2,2,2,1 2,2,2,1 2,0,2,1 2,0,2,1	12,114 11,912 11,519 11,308	11, 522 11, 597 10, 973 10, 621	11,828 11,363 10,485	11, 779 11, 157 10, 000 9, 291	11, 740 11, 036 9, 758 8, 922	11, 783 10, 992 9, 585 8, 617	11, 913 11, 029 9, 483 8, 377	12,118 11,136 9,439 8,189	12, 378 11, 291 9, 435 8, 031	12,678 11,480 9,455 7,887
ls to 19 years: A C C C C C C C C C C C C C C C C C C	11,897	12,207		12, 562	12,686	12,627	12, 482	12, 326 12, 234 12, 049 11, 957	12,086 11,888 11,453	11,895 11,571 10,948 10,597	11, 801 11, 337 10, 462 9, 944	11,752 11,131 9,977 9,269	11,715 11,011 9,737 8,901
20 to 24 years: A B B B	10,895	11,068	11,348	11, 534	11,666	11,853	12, 163	12,310	12, 621	12, 646	12, 588	12, 443	21,21,22 19,195 19,199
25 D 20 years 28 to 29 years 24 to 44 years 26 to 64 years 26 to 64 years 26 to 64 years 27 to 74 years 77 y	- 0.00000000000000000000000000000000000	7.9.9.9.9.4.9.9.1.9 88428 88428 8888 8888 8888 8888 8888 8	&&Q1 \$\pi\pi\pi\pi\pi\pi\pi\pi\pi\pi\pi \$\pi\pi\pi\pi\pi\pi\pi\pi\pi\pi \$\pi\pi\pi\pi\pi\pi\pi\pi \$\pi\pi\pi\pi\pi\pi \$\pi\pi\pi\pi\pi \$\pi\pi\pi\pi \$\pi\pi\pi \$\pi\pi\pi \$\pi\pi\pi \$\pi \$	0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,	01 02.00.00.00.00.00.00.00.00.00.00.00.00.0	10,834 46,49	11,008 7,1575 7,1985 8,9608 7,986 8,996 8,996 8,218 8,218 8,453 7,775	11. % % % % % % % % % % % % % % % % % % %	11.0.0.0100000000000000000000000000000	11.00.00.00.00.00.00.00.00.00.00.00.00.0	11, 10, 10, 10, 10, 10, 10, 10, 10, 10,	21.01 01.02,02,02,02,02,02,02,02,02,02,02,02,02,0	

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	1972		134, 043 132, 891 130, 822 129, 433	11, 364 10, 521 9, 045 7, 991	11,334 11,025 10,432 10.097	12, 097	11, 281	10, 099	5, 887 10, 748 11, 28, 567 11, 38, 11, 38 10, 10, 10, 10, 10, 10, 10, 10, 10, 10,
U.S.S.R., by 6-year age groups and sex, Jan. 1, 1959-86—Continued	1971		132, 634 131, 687 129, 970 128, 845	11, 246 10, 490 9, 147 8, 222	11. 521 11, 330 10, 956 10, 756	12, 001	11, 174	9, 447	6.01 6.02 6.03 6.03 6.03 6.03 6.03 6.03 6.03 6.03
. <i>9-89—</i> C	1970		131,255 130,494 129,008 128,210	11, 210 10, 537 9, 317 8, 517	11,749 11,661 11,485 11,397	11, 833	11, 013	8, 541	6, 937 10, 680 10, 286 10, 286 17, 464 6, 079 7, 049 8, 128 8, 208 8, 494 4, 494
n. 1, 195	1969		129,899 129,305 128,200 127,521	11, 253 10, 659 9, 554 8, 875	11,898	11, 729	10, 757	7, 492	8, 142 10, 180 9, 148 10, 197 6, 880 6, 183 7, 183 5, 088 4, 333 4, 333
l sex, Ja	1968		128, 549 128, 103 127, 264 126, 767	11,306 10,860 10,021 9,524	12,051	11, 457	10, 604	6, 406	9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9
onps and	1967		127, 187 126, 875 126, 276 125, 938	11,403 11,091 10,492 10,154	12, 123	11, 306	10, 127	5,878	10, 792 9, 169 9, 165 9, 175 6, 251 6, 267 6, 676 6, 676 8, 4, 708 4, 038
ır age gr	1966		125,804 125,610 125,232 125,020	11, 595 11, 401 11, 023 10, 820	12, 030	11, 201	9, 475	6, 169	10, 990 10, 990 10, 990 10, 990 1172 172 172 19, 964 19, 964
by 5-yec	1965		124,373 124,283 124,104 124,014	$\left\{\begin{array}{c} 11,831\\11,741\\11,562\\11,472\\\end{array}\right.$	11,863	11,042	8, 569	6,964	10, 22, 23, 24, 27, 26, 27, 26, 27, 26, 27, 27, 27, 27, 27, 27, 27, 27, 27, 27
.S.S.R.,	1964		122,892	11,988	11,760	10, 788	7, 520	8, 176	10, 229 10, 223 10, 237 10, 234 10, 226 10, 22
of the U	1963		121, 412	12, 151	11,489	10, 636	6, 434	9,680	9, 762 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9, 9
stimated and projected population of the	1962		119,885	12, 239	11, 338	10, 159	5, 906	10,840	9, 220 220 2272 6, 822 7, 186 7, 105 9, 745 817
jected po	1961		118, 195	12, 142	11, 233	9, 507	6, 198	11, 039	8.00 8.00 8.00 8.00 8.00 8.00 8.00 8.00
and pro	1960		116, 409	11,973	11,074	8, 600	6, 996	10, 778	9,01 10,000
stimated	1959		114,687	11,882	10,821	7,549	8, 213	10, 279	9.001 9.001 9.001 9.0000 9.000 9.000 9.000 9.000 9.000 9.000 9.000 9.000 9.0000 9.000 9.000 9.000 9.000 9.000 9.000 9.000 9.000 9.0000 9.000 9.000 9.000 9.000 9.000 9.000 9.000 9.000 9.0000 9.000 9.000 9.000 9.000 9.000 9.000 9.000 9.000 9.0000 9.000 9.000 9.000 9.000 9.000 9.000 9.000 9.000 9.0000 9.000 9.000 9.000 9.000 9.000 9.000 9.000 9.000 9.0000 9.000 9.000 9.000 9.000 9.000 9.000 9.000 9.000 9.0000 9.000 9.000 9.000 9.000 9.000 9.000 9.000 9.000 9.0000 9.000 9.000 9.000 9.000 9.000 9.000 9.000 9.000 9.0000 9.000 9.000 9.000 9.000 9.000 9.000 9.000 9.000 9.0000 9.000 9.000 9.000 9.000 9.000 9.000 9.000 9.000 9.0000 9.000 9.000 9.000 9.000 9.000 9.000 9.000 9.000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0000 9.0
TABLE II-14.—E	Series and age	All ages:	B C D D Under 5 years:	A B C D 5 to 9 years:	10 to 14 years:	B C D 15 to 19 vears:	20 to 24 years:	DQ B	25 to 29 years 35 to 39 years 45 to 49 years 45 to 49 years 50 to 54 years 50 to 54 years 60 to 64 years 77 to 69 years 77 years

Series and age	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985
All ages: FEMALE A A										1 -			-
B C D	134, 112 131, 661 129, 976	135, 344 130, 462	136, 592 133, 272 130, 896	137, 860 134, 080 131, 336	139, 148 134, 898 131, 780	140, 461 135, 731 132, 230	141,805 136,585 132,692	143, 172 187, 453 133, 160	144, 566 138, 837 133, 638	145,988 139,243 134,126	140, 157 134, 621	148,876 141,072 135,110	150, 252 150, 319 141, 977 135, 587
Onde o years: A A C C C C C C C C C C C C C C C C C	11,555 10,618 9,001 7,808	11, 797 10, 760 8, 989 7, 652	12, 077 10, 935 9, 006 7, 513	12, 364 11, 131 9, 061 7, 435	12, 648 11, 340 9, 151 7, 415	12,930 11,561 9,275 7,452	13, 210 11, 795 9, 436 7, 549	13, 481 12, 037 9, 630 7, 703	13,758 12,284 9,827 7,862	14, 031 12, 528 10, 023 8, 017	14, 295 12, 764 10, 212 8, 169	14, 535 12, 978 10, 383 8, 305	14, 745 13, 164 10, 532 8, 425
5 to 9 years: B C D D D D D D D D D D D D D D D D D	11, 240 10, 798 9, 964 9, 472	11, 192 10, 601 9, 502 8, 827	11, 154 10, 484 9, 269 8, 474	11, 193 10, 441 9, 105 8, 186	11, 312 10, 474 9, 006 7, 957	11, 508 10, 572 8, 962 7, 775	11, 745 10, 715 8, 953 7, 620	12, 026 10, 891 8, 969 7, 484	12, 313 11, 087 9, 025 7, 407	12, 600 11, 297 9, 117 7, 387	12,883 11,518 9,241 7,424	13, 164 11, 753 9, 408 7, 523	13, 438 11, 998 9, 598 7, 679
JO 00 14 Years:	3 12,026	11,875	11,730 11,642 11,466 11,378	11, 507 11, 316 10, 942 10, 743	11, 323 11, 014 10, 421 10, 088	11, 231 10, 789 9, 955 9, 464	11, 185 10, 594 9, 495 8, 822	11, 146 10, 477 9, 263 8, 470	11, 185 10, 434 9, 098 8, 181	11, 305 10, 467 9, 000 7, 952	11, 496 10, 565 8, 956 7, 771	11, 738 10, 708 8, 948 7, 617	12, 019 10, 884 8, 964 7, 480
20 to 13 years.	11,432	11, 704	11, 808	11, 976	12, 076	12, 010	11,862	$\begin{bmatrix} 11,719\\11,631\\11,455\\11,455\\11,367 \end{bmatrix}$	11, 498 11, 307 10, 933 10, 734	11,316 11,007 10,414 10,081	11, 227 10, 785 9, 951 9, 460	11, 184 10, 593 9, 494 8, 821	11, 146 10, 477 9, 263 8, 470
A years.	10,578	10, 732	10, 988	11,149	11,256	11, 407	11,679	11,783	11,951	12,051	11,985	11,838	11,698
25 to 29 years. 30 to 34 years. 35 to 39 years. 40 to 44 years.													11,758 10,758 8,462
5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5													.01. .02. .03. .03. .03. .03. .03. .03. .03
20 00 39 years 20 00 49 years 65 to 69 years 70 to 74 years 75 years	6, 18, 18, 18, 18, 18, 18, 18, 18, 18, 18	6, 5, 501 4, 5, 495 4, 452 833	6,729 6,729 7,671	6,574 4,574 1,611	6,6,6,4,6,181.	6,0,0,4,0 20,00,4,0 11,00,00,00,00,00,00,00,00,00,00,00,00,0	6,57,733 8,831 187,733	7, 124 6, 5, 642 7, 975	7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7	2000 100 100 100 100 100 100 100 100 100	2,7,7,7,1 2,4,19 2,4,15 2,40 1,41 1,41 1,41 1,41 1,41 1,41 1,41 1	9,0,0,0,0 1,0,0,0,0 1,0,0,0,0 1,0,0,0,0,0	2,0,0,0,1 3,822,4,2 3,12,5,1
10 years and over													1,310

CHAPTER III

INDUSTRY

- A. TRENDS IN OUTPUT OF INDUSTRIAL PRODUCTION, 1956-63
- 1. The 6.6-percent increase in civilian industrial production in 1963 was the lowest of the postwar period. Moreover, it marked the fourth consecutive year of annual rates of growth of less than 8 percent, a marked change from the average annual increase of about 10 percent for the 1950's. For the 4-year period 1960-63, the average annual rate came to 7 percent compared to an average of 9.7 percent for the years 1956-59. In the absence of armaments production data, the degree of slowdown in overall industrial production is uncertain, but we do not believe that its inclusion would eliminate the slowdown effect.
- 2. The change in the rate of increase in production did not show a consistent slowdow, however, in all the major sectors or in branches within the major sectors. Thus, the average annual rate of increase between the two 4-year periods declined by nearly a half for non-durable consumer goods, about a third for industrial materials, and less than a tenth for civilian machinery.

U.S.S.R.: Average annual rates of growth of civilian industrial output
[Percent]

	-			
	1956-59	1960-63	1962	1968
Total industry	9.7	7.0	7.8	6.6
Industrial materials	9. 6 12. 4 7. 4	6. 1 11. 5 3. 9	6. 6 12. 7 4. 6	6.3 10.6 2.0

3. Most of the decline in the rate of growth in industrial materials was caused by reduced rates of growth in the output of coal, forest products, construction materials, and a continuing fall in the rate of increase of petroleum products and natural gas. The sharp break in the rate of growth of output of nondurable consumer goods after 1959 reflects the steady decline in the rates of increase in production of soft goods and the virtual stagnation in the output of processed foods in 1960 and in 1963.

B. FACTORS IN THE INDUSTRIAL SLOWDOWN

1. Factors that help to explain the slowdown in the rate of industrial growth after 1959 are: (1) a sharp decline in industrial investment and the continued difficulty in introducing and assimilating new technology (see discussion in ch. IV); (2) difficulties in agriculture which led to a lessened supply of raw materials for industry; (3) the preemption of high quality resources by defense activities which further weakened programs in investment of new plant and equipment; reduction of the length of the standard workweek in industry from 48 hours in 1955 to 41 in 1961; and (5) the decline in the rate of growth of factor productivity (ratio of output per unit of input of labor and capital combined).

Table III-1.—U.S.S.R: Production of selected industrial commodities, 1959, 1963, and 1965 plan

	•			19	65	Per	cent
Commodity	Unit	1959	1963	Original plan	Revised plan ¹	Average annual increase, 1959–63	Required annual increase, 1964–65 ²
Primary energy 3	Million metric tons of standard fuel.	659. 4	847.1	1,016	(4)	6. 5	(4)
Electric power	Billion kilowatt- hours.	265. 1	412.4	500-520	510	11.9	11.2
Crude oil	Million metric tons	129.6	206.1	230-240	242	12,7	8.4
Natural gas 4	Billion cubic meters.	35.4	89.8	148. 2	126	26. 2	18. 5
Pig iron	Million metric tons	43.0	58.7	65-70	65.7	8. 2	5.8
Crude steel	do	60.0	80. 2	86-91	90	7.9	5.9
Cement	do	38.8	61	75-81	70	12.9	7.1
Mineral fertilizers [do	12.9	19.9	35	33. 5	9.9	29, 7
Artificial and syn- thetic fibers.	Thousand metric tons.	179.5	308.4	666	416	13. 2	16. 1
Textiles 7	Billion square meters.	6, 1.8	6.85	8. 32	7.41	3.3	4.0
Leather footwear	Million pairs	389.9	462.7	515	477	5. 4	1.5

<sup>Revisions of plan announced in December 1964.
Based on revised plan data for 1965.
Primary energy expressed in terms of standard fuel. Including coal, crude oil, natural gas, peat, shale, and firewood, but excludes hydroelectric power.
Not available.
Excluding a small amount of gas manufactured from coal and shale.
In standard Soviet units.
In standard Soviet units.
Including cotton, wool, linen, and silk (including rayon, nylon, etc.).</sup>

Table III-2.—Production of major chemicals in the U.S.S.R., 1955 and 1959-63, plan for 1965, and United States, 1963

[Unclassified]

					U.S.S.	R.			United
Commodity	Unit	1955	1950	1960	1061	1962	1063	1965 (plan)	States, 1963
Sulfuric acid (100 per- cent),	Thousand metric tons	3, 798	5,082	5, 398	5, 718	6, 132	6, 885	1 9, 000	18, 998
Soda ash (95 percent) Caustic soda (92 per- cent).	do	1, 437 563	1,728 757				2, 545 1, 049		² 4, 24 ² 5, 16
Mineral fertilizers 3 Plastics Rubber tiros Chemical fiber	do Thousand units Thousand metric tons		293 15, 480	332 17, 225	404 18, 996	473 20, 846	589 22, 563	4 7, 835 1 920 1 26, 000 416	8, 82 4, 06 142, 94 1, 13

- ¹ Figures represent a downward revisions of goals under original 7-year plan for 1059-65.

 ² In terms of 100 percent.

 ³ In terms of pure nutrient, production between 1 July 1962 and 30 June 1963.

 ⁴ Estimated plan includes a small amount of trace fertilizers.

NEW SOVIET CHEMICAL PROGRAM

A significant development affecting the Soviet chemical industry in 1963 was the announcement at the December plenum of the Central Committee of the Communist Party of a new plan for rapid development of the industry in 1964-70. The plan called for production of the most important branches to increase by 200 to 230 percent, with the proportion of chemical output in the gross value of all industrial output to double by 1970. Primary attention was to be devoted to raising output of agricultural chemicals and synthetic materials. To support the program of "chemicalization" of the economy, a direct investment of about 25 billion rubles was planned in the chemical industry, with an additional 17 billion rubles to be invested in allied industries to support the chemical program and to assure efficient. industry, with an additional 17 binion rubies to be invested in aneal industries to support the chemical program and to assure efficient use of fertilizers and pesticides in agriculture. While events following the shift in Soviet leadership in 1964 suggest that the chemical program will be reduced somewhat, there is good reason to expect that Soviet planners will accord a high priority to development of the chemical industry for some years to come.

	Unit	1955	1959	1960	1961	1962	1963	Original 1965 pian	Revised 1965 pian	United States, 1963 (pre- liminary)
Fabrics, total	Million square meters	5, 230	6,178	6, 467	6, 504	6,655	6,849	8, 322	7, 414	12, 401
Cotton Wool Bayon, synthetic and silk Linen	do 	4, 227 316 415 272	4, 915 415 863 885	4,838 438 675 516	4, 875 454 682 493	4, 914 469 787 485	5,069 471 800 509	5, 852 640 1, 233 597	* 600 *	8, 591 3, 404 (*)
Leather footwear Sewn garments Knit unterwear Hoslery Sewning machines Barligerators Washing machines Radios Radios	Million patrs Million rubles (in wholesale prices). Million pieces Million pairs Million pairs Thousand do do do do do	27 28 28 28 27 772 11611 151 3, 543 83 683 683	8, 108 104 439 928 2, 941 428 428 428 1, 237	8, 739 8, 739 112 472 964 3, 036 530 836 836 84, 165 1, 726	9, 328 9, 328 118 1, 000 3, 282 686 1, 286 1, 286 1, 286 1, 286	9, 688 9, 688 126 1, 639 3, 341 3, 341 7, 7, 797 2, 168	9, 494 9, 494 1, 123 1,	11,870 11,870 160 780 1,250 1,450 1,460 7,000 3,500	6. 1.6.1.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.	(3) (3) (2) (3) (4) (4) (4) (4) (5) (4) (5) (6) (7) (7) (7) (8) (8) (9) (9) (9) (9) (9) (9) (9) (9) (9) (9

Table III-4.—Production of selected metals in the U.S.S.R., 1955, 1959-63, and 1965 plan, and in the United States, 1963

[In thousands of metric tons]

			-	J.S.S.R.				United
Commodity	1955	1959	1960	1961	1962	1963	1965 plan	States, 1963
Crude steel. Aluminum (primary)	45, 272 435 377 258 10 222	59, 972 575 450 306 13 344	65, 294 650 490 324 13 364	70, 756 725 530 343 14 377	76, 307 800 590 364 15 403	80, 231 875 640 385 16 419	90, 100 1, 450 772 433 16 504	99, 120 2, 557 1, 723 378 3 865

Data for crude steel are official Soviet data; all other data are estimates.
 Estimated data.
 Including refined primary zinc and secondary zinc refined at primary refineries.

Table III-5.—Production of selected fuels in the U.S.S.R., 1955 and 1959-63, and in the United States, 1963

Commodity	Unit of measure	1955	1959	1960	1961	1962	1963	United States, 1963
Coal Crude oil Natural gas	Million metric tons Dillion cubic meters	391.3 70.8 9.0	506. 6 129. 6 35. 4	513, 2 147, 9 45, 3	510, 5 166, 1 59, 0	517. 4 186. 2 73. 5	531. 7 206. 1 89, 8	432.9 372.0 417.6

Table III-6.—U.S.S.R.: Indexes of civilian industrial production, 1955 and $1959-63^{**}$

	1955 value—			1955	=100		
	Added weights (percent)	1955	1959	1960	1961	1962	1963
Industrial materials		100	144.3	153. 2	161.4	172. 1	182. 9
Electric power. Coal Petroleum products and natural gas. Ferrous metals. Nonferrous metals. Forest products. Paper products. Construction materials. Chemicals.	9.3 2.4 6.0 4.8 14.2	100 100 100 100 100 100 100 100 100	155. 7 130. 4 184. 8 133. 1 129. 2 124. 4 130. 7 199. 5 154. 5	171. 8 133. 4 210. 5 144. 2 142. 0 118. 8 136. 5 229. 7 168. 6	192. 6 133. 4 236. 4 156. 4 154. 0 114. 2 144. 6 253. 6 182. 0	216. 6 136. 0 268. 3 167. 9 168. 0 114. 7 154. 7 275. 9 198. 1	242. 6 139. 9 298. 1 176. 6 180. 8 117. 2 164. 4 292. 9 219. 2
Civilian machinery, including electronics	22. 2	100	159. 5	176.0	198.3	223. 4	247.1
Machinery, excluding electronics.	19. 5 2. 7	100 100	150.7 222.0	163. 0 268. 8	181. 0 322. 0	200. 2 389. 0	216. 1 468. 8
Nondurable consumer goods	25. 5	100	133. 2	138. 9	145. 8	152.5	155. 5
Soft goods Processed foods	16. 2 9. 3	100 100	131. 3 136. 4	139. 0 138. 8	143. 5 149. 9	149, 3 158, 0	152. 5 160. 6
Aggregato civilian industrial production	100.0	100	144, 8	154.6	165. 6	178. 5	190. 2

Note.—For methodology, see "Dimensions of Soviet Economic Power," pp. 119-136.

Table III-7.—U.S.S.R.: Annual rates of growth in industrial production, 1959-63
[In percent]

	1989	1960	1961	1962	1963
Industrial materials Electric power Coal. Petroleum products and natural gas Forrous metals Nonferrous metals Forest products Construction materials Construction materials Chemicals Civilian machinery, including electronics Machinery, oxcluding electronics Electronics Soft goods Processed foods Aggregate civilian industrial production	12. 4 2. 9 14. 5 9. 8 7. 0 4. 5 11. 7 7. 0 4. 7 19. 8	6.2 10.3 2.3 13.9 8.3 9.9 -4.5 15.1 9.1 10.3 8.1 21.1 4.3 5.8	5. 4 12.1 12.3 8.5 8.4 -3.9 10.4 8.0 12.7 11.0 19.8 8.0	6.6 12.5 2.0 13.5 7.4 9.1 .5 7.0 8.8 8.8 12.7 10.6 4.1 5.4	6. 3 12. 0 2. 9 11. 1 5. 1 7. 6 2. 2 6. 2 10. 6 10. 6 10. 5 2. 0 2. 0 2. 0 2. 0 5

 ${\bf Note.-For\ methodology, sce ``Dimensions\ of\ Soviet\ Economic\ Power," pp.\ 119-136.}$

^{*}Machinery uniquely military in character (e.g., munitions) are oxcluded from the index shown in the table. If military machinery were included the slowdown in industrial growth between the 2 periods 1955-59 and 1960-63 would probably be reinforced.

CHAPTER IV

INVESTMENT

1. The official Soviet investment series appearing in the latest statistical yearbook, Narodnoye khozyaystvo SSSR v 1963 godu, reflects a reclassification of some previously published data. The handbook also shows an upward revision in the total gross fixed investment originally announced for 1963 (from 41.3 billion rubles to 42.2 billion rubles). The figures in the accompanying tables are based on the new yearbook and therefore may vary from those published in the 1964 edition of Annual Economic Indicators for the U.S.S.R.

2. As indicated by tables IV-1 through IV-3, the year 1961 was

the turning point in a number of trends in investment. In that year a sharp decline began in the rate of growth of construction; construction grew at an average annual rate of only about 1.7 percent in 1961-63 as compared with nearly 14 percent during 1956-60. This retardation was largely the result of an average annual decline of 2.3 percent

in housing investment during 1961-63.

3. A significant increase of investment in equipment buoyed up total investment in 1961-62. In 1963, however, the rate of growth of investment in equipment also decelerated and total investment in the Soviet economy showed an increase of only about 5 percent.

4. There has been a stepup in the rate of increase of productive new investment in agriculture in recent years—from an average annual rate of 4.6 percent in 1959-60 to about 10.5 percent in 1961-63 (see table IV-6). The current agricultural program is heavily oriented toward construction, including construction of livestock shelters, grain and fertilizer storage facilities, and land reclamation projects.

5. Among various consumer-oriented fields of investment—agriculture, housing, services, and manufactured consumer goods-all but manufactured goods presently require a large proportion of construction resources relative to equipment. Consequently there is competition among them for construction resources. Thus the growing rate of investment in agriculture since 1960 has, to some extent, been at the expense of investment in housing and services.

6. Although precise data are lacking, investment in industry is characterized by a relatively high percentage for equipment—about 35 to 40 percent. The share of equipment in industrial investment has probably been rising in recent years, the construction of completely new industrial plants having been dampened in favor of expansion and

modernization of existing plants.
7. The relatively low growth rates in industrial investment since 1961 partly reflect dislocations resulting from efforts to restructure industry in favor of such modern "growth" branches as the chemical, petrochemical, and electronics industries. They also reflect, however, the diversion of resources to other sectors, including equipment to military and space programs.

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8. Significant trends in individual branches of industry since 1960 include a marked decline in the rate of growth of investment in ferrous metallurgy. For consumer goods and construction materials the absolute level of investment in 1963 remained below the level attained in 1960. At the same time, the energy industries experienced an increasing rate of growth in investment.

9. The rate of growth of investment in transportation and communications has slowed since 1960. In railroad investment, heavy emphasis has been placed on the modernization of existing facilities rather than further expansion of the rail system. Transportation investment now includes investment in pipeline construction.

Table IV-1.—U.S.S.R.: Gross fixed investment, by function, 1955 and 1959-63 1
[In millions of rubles] 2

	1955	1959	1960	1961	1962	1963
Total investment	19, 931	33, 9 86	36,705	38, 271	40, 150	42, 214
Construction Equipment Other capital outlays	12, 881 5, 532 1, 568	22, 291 9, 501 2, 194	24, 240 10, 099 2, 366	24, 542 11, 286 2, 443	24, 852 12, 505 2, 793	25, 520 13, 595 3, 099
Productive investmentOf which:	18, 599	\$ 20,710	22, 508	1 23,768	25, 500	27, 433
Construction Equipment Nonproductive investment By function: Of which:	7, 413 4, 784 8, 332	* 10, 765 * 38, 198 * 13, 276	12,064 8,498 14,197	* 12, 721 * 9, 230 * 14, 503	13, 473 10, 058 14, 650	14, 509 10, 803 14, 781
Construction Equipment By use:	5, 418 748	* 11,526 * 1,303	12, 176 1, 601	⁸ 11, 821 ⁸ 2, 054	11,379 2,447	11, 011 2, 792
HousingServices	3,806 2,526	8,319 8 4,957	8, 275 5, 922	7,879 8 8,624	7, 729 6, 921	7,714 7,067

Based on revised Soviet investment series appearing in Narodnove khozyayetvo SSSR v 1965 godu, pp. 452
 Expressed in terms of new rubles at 1955 prices.
 Estimated.

Table IV-2.—U.S.S.R.: Index of gross fixed investment, by function, 1955 and 1959-63

In	Percent	(1955=100)]

	1955	1959	1960	1961	1962	1963
Total investment Construction Equipment Other capital outlays Productive investment Of which: Construction Equipment Nonproductive investment By function: Of which:	100 100 100 100 100 100	171 174 172 140 152 145 171 210	184 189 183 151 166 163 178 224	192 191 204 158 175 172 193 229	201 194 226 178 188 182 210 231	212 199 246 198 202 196 226 233
Construction Equipment By use:	100	213	225	218	210	203
	100	174	214	275	327	373
Housing	100	219	217	207	203	203
Services	100	196	234	262	274	280

¹ Based on table IV-1, which contains estimated data for 1959 and 1961.

Table IV-3.—U.S.S.R.: Annual rates of growth of gross fixed investment, by function, 1959-631

lIn	percentl
444	PARTOCITOR

	1959	1960	1961	1962	1063
Total investment	13. 2	8.0	4.3	4.9	5. 1
Construction Equipment Other capital outlays Productive invostment Of which: Construction Equipment Nonproductive investment By function:	15. 3	8.7	1. 2	1. 3	2. 7
	8. 8	6.3	11. 8	10. 8	8. 7
	13. 0	7.8	3. 3	14. 3	11. 0
	13. 0	8.7	5. 6	7. 3	7. 6
	17. 0	12.1	5. 4	5. 9	7. 7
	7. 5	3.7	8. 6	9. 0	7. 4
	12. 2	6.9	2. 2	1. 0	0. 9
Of which: Construction Equipment By use: Ilousing	13. 7	5.6	-2.9	-3.7	-3.2
	17. 6	22.9	28.3	19.1	14.1
	10. 4	-0.5	-4.8	-1.0	-0.2
	15. 3	19.5	11.9	4.5	2.1

¹ Based on table IV-1, which contains ostimated data for 1959 and 1961.

Table IV-4.—U.S.S.R.: Productive gross fixed investment, by sector, 1955 and $1959-63^{-1}$

[In millions of rubles] 2

	1955 3	1959 3	1060	1061 2	1062	1963
Productive investment, all sectors	13, 599	20, 710	22, 508	23,768	25, 500	27, 433
Industry, total	7, 609	11,602	12, 854	13, 308	14, 165	15,130
Ferrous metallurgy Chemicals Friels and power Machine building Construction materials Consumer goods Others	586 278 2,865 1,139 310 903 1,528	1, 089 605 3, 688 1, 514 800 1, 756 2, 150	1, 219 910 3, 797 1, 805 1, 011 1, 062 2, 151	1, 327 1, 063 3, 959 2, 046 1, 018 1, 771 2, 124	1, 413 1, 164 4, 176 2, 397 932 1, 840 2, 284	1, 450 1, 466 4, 510 2, 441 954 1, 029 2, 380
Construction Agriculture Transport and communications	530 3,804 1,656	946 5, 057 3 , 015	1, 030 5, 172 3, 452	1, 117 5, 702 3, 641	1, 050 6, 316 3, 969	1, 081 6, 983 4, 239

Based on revised Soviet investment series appearing in Narodnoye khozyaystvo SSSR v 1968 godu, pp.
 Expressed in terms of new rubles at 1955 prices.
 Estimated.

Table IV-5.—U.S.S.R.: Index of productive gross fixed investment, by sector, 1955 and 1959-63 1

[In percent (1955=100)]

Productive investment, all sectors	1955 100 100 100 100 100 100	1959 152 154 186 250 120 133	1060 166 167 208 327 133 158	1961 175 175 226 382 138 180	188 188 241 419 149	1963 202 199 247 527 157
Machine building. Construction materials. Consumer goods. Others. Construction. Agriculturo. Transportation and communications.				138 180 323 196 139 211 150 220	149 210 301 205 147 198 166 230	157 214 308 214 156 204 184 256

¹ Based on table IV-4, which contains estimated data for 1955, 1959, and 1961.

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Table IV-6.—U.S.S.R.: Annual rates of growth of productive gross fixed investment, by sector, 1 1959-63

[In percent]

	1959	1960	1961	1962	1963
Productive investment, all sectors	13, 9 15, 2	8. 7 9. 9	5. 6 3. 5	7. 8 6. 4	7. 6 6. 8
Ferrous metallurgy	25. 0 50. 1 2. 2 19. 4 26. 0 19. 0 17. 6 12. 9 7. 0 22. 6	11. 9 30. 9 3. 0 19. 2 26. 2 11. 7 0. 0 8. 9 2. 3 14. 5	8.9 16.8 4.3 13.4 0.8 -9.7 -1.3 8.4 10.2	5. 5 9. 5 5. 5 17. 2 -8. 4 4. 4 5. 2 -6. 0 10. 8 9. 0	2. 6 25. 9 8. 0 1. 8 2. 4 4. 3 6. 5 3. 0 10. 6 6. 8

¹ Based on table IV-4, which contains estimated data for 1959 and 1961.

CHAPTER V

AGRICULTURE

AGRICULTURE IN THE UNITED STATES AND U.S.S.R.

The following tables present a brief statistical comparison of inputs, farm organization, and agricultural output in the United States and the Soviet Union. The comparison is limited to 1963 except for 1955-59 average data on the area, yield, and production of grain.

An international comparison is an inadequate tool to describe the

An international comparison is an inadequate tool to describe the structure and functioning of the agriculture of a foreign nation. Nevertheless, it does provide a frame of reference for basic understanding. Perhaps the principal observation to be drawn from the accompanying data is the striking difference in the productivity of American and Soviet agriculture. While some of the difference is attributable to more favorable natural conditions—weather and soil fertility—in the United States, much of it derives from the pattern of resource utilization in each country. The Soviet Union relies on massive inputs of labor and land to obtain mediocre results; the United States substitutes advanced technology to achieve better results. The gargantuan size of collectivized farm units in the U.S.S.R.—both in terms of land area and labor force—also militates against efficiency. Unwieldy units are difficult to manage, and individual incentive is dulled by the herd approach to personnel management.

A final generalization is that because of low yields and the pressure of population Soviet agriculture is forced into the pattern of a bread grain and potato economy. Higher yields and greater productivity have permitted American agriculture to assume the more advanced pattern of a corn-hog economy—a pattern the Soviet Union hopes to

emulate.

The U.S. lead in agricultural productivity is somewhat or erstated in the present comparison. U.S. crop output was at a record high in 1963, despite critical moisture shortages in the Southern Plains and Mid-Atlantic States. Conversely, the Soviet crop production index in 1963 was at its lowest level since 1957 because of a crop failure in the Virgin Lands and extensive drought in the European U.S.S.R.

Data on American agriculture are from publications of the U.S. Department of Agriculture unless otherwise noted. Most data on Soviet agriculture are from Soviet sources, but are expressed in units common to the United States. Certain data on Soviet agriculture are estimates, necessitated by the unavailability of information (e.g., labor force), or the unreliability of official Soviet statistics (e.g., crop production, especially grain).

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Table V-1.—Agricultural resources

Itom	Year	Unit	United States	Soviet Union	U.S.S.R. as per- cent of Unitod States
Population	July 1, 1963	Million	1 189. 4	2 224.8	119
Civilian labor force (work experi- ence)	1962 1963	do	³ 82. 0 ⁵ 68. 8	4 115. 0 6 102. 0	140 148
perience)	do	do	7 6. 5	8 47. 0	723
Percent form of total labor force	do	ao	4.9	10 37. 0	755
(work experience). Percent farm employment of total (annual average).	do	Fercent	7.9	40. 9	
(annual average) Sown crop land Sown crop land por capita	do	Million acres	7. 1 11 309 1. 6	36. 3 12 54. 0 2. 4	175 150
Sown crop land Sown crop land por capita Tractors on farms Motortrucks on farms Grain combines on farms	Jan. 1, 1964	Thousanddo	13 4, 657 13 2, 915 13 1, 010	14 1, 442 14 922 14 517	31 32 51
Agricultural consumption of electricity		Eilion kilowatt-	18 28	15 14. 1	50
Primary commercial fertilizer con- sumption in terms of available plant nutrients:					
Total	1963	Thousand short tons.	17 9, 532	18 3, 594	38
Per acre of sown area.	do	Pounds	62	15	24

- 1 U.S. Bureau of the Census, Statistical Abstract of the United States: 1964, eighty-fifth edition, Washington, D.C., 1964, p. 5.

 2 USSR Central Statistical Administration, Narodnoe thozyaystvo SSSR v 1962 godu, Moscow, 1963, p. 7.

 3 Statistical Abstract * * * *, op. cit., p. 219.

 4 U.S. Department of Agriculture (USDA) estimate based on Soviet census of 1959.

 5 Statistical Abstract * * *, op. cit., p. 216.

 C. U.S. Bureau of the Census preliminary estimate.

 7 USDA, Office of Information, Fact Book of U.S. Agriculture, Washington, D.C., January 1965, p. 3.

 8 USDA estimate based on Soviet census of 1959. Persons employed in agriculture in 1962, including those working their private plots.

 9 Statistical Abstract * * *, op. cit., p. 216.

 10 JU.S. Bureau of the Census preliminery estimate.

 11 USDA, Statistical Reporting Service, Crop Production: 1964 Annual Summary. Washington, D.C., December 18, 1964, p. 6.

 12 Narodnoe khozyaystvo SSSR v 1963 godu, Moscow, 1965, p. 242.

 13 USDA. Economic Revearch Service, Changes in Farm Production and Efficiency, Summary Report, 1964, Statistical Bulletin No. 233, Washington, D.C., July, 1964, p. 30.

 14 Narodnoe khozyaystvo 1963 * * *, op. cit., p. 332.

 15 Fact Book * * *, op. cit., p. 31.

 16 Narodnoe khozyaystvo 1963 * * *, op. cit., p. 22.

 18 Narodnoe khozyaystvo 1963 * * *, op. cit., p. 20.

 18 Narodnoe khozyaystvo 1963 * * *, op. cit., p. 22.

 18 Narodnoe khozyaystvo 1963 * * *, op. cit., p. 300.

Table V-2.-Farm numbers and size, 1963

Number of farms: All U.S. farms 3, 57	3, 000
Soviet collective farms 23	8,772
Soviet state farms ²	9, 176
Avorage farm size:	
Land area per U.S. farm 3	325
	86
	2,470
	7,156
	7, 300
	4, 160
	1.4
Households per Soviet collective farm 7	411
Workers per Soviet state farm 8	775

- 1 USDA, ERS, Farm Income Situation, FIS-196, Washington, D.C., November 1964, p. 22.

 2 Narodnoc khozyaystvo 1963 * * *, op. cit., pp. 348, 356.

 3 Fact Book * * *, op. cit. p. 5.

 4 Nirodnoc khozyaystvo 1963 * * *, op. cit., pp. 238, 342, 348.

 5 Narodnoc khozyaystvo 1963 * * *, op. cit., pp. 238, 356. Includes all state agricultural enterprise.

 6 Narodnoc khozyaystvo 1963 * * *, op. cit., p. 358.

 7 Narodnoc khozyaystvo 1963 * * *, op. cit., p. 342.

 8 Narodnoc khozyaystvo 1963 * * *, op. cit., p. 342.

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Table V-3.—Crop acreage, 1963

Crop	United States 1	Soviet Union ²	U.S.S.R. as percent of United States
Corn, grain. Wheat. Raye 3 Oats. Barley. Sorghum grain. Rice. Cotton, lint. Soybeans for beans. Sumflowers. Peanuts harvested for nuts. Flax 3 Sugarbeets 7 Sugarcane, for sugar and seed. Tobacco. Potatoes. Sweet potatoes. Yegotables 9 Fruits and berries, including citrus 10 Citrus. Citrus.	45, 209 1, 594 21, 683 11, 566 18, 582 1, 771 14, 212 28, 580 (e) 1, 409 3, 183 1, 235 570 1, 176 1, 347	Thousand acres 17, 280 159, 600 37, 100 14, 100 4 50, 700 (*) 247 6, 130 (*) 3, 620 9, 261 (*) 445 21, 000 (*) 5, 011 (*) (*) (*) (*) (*) (*) (*) (*) (*) (*)	22: 35: 2, 32: 6: 438 14: 44: 1.14: 7.56: 1.56:

1 Area harvested. Crop Production * * *, op. cit., pp. 3-4, 51.
2 Sown area after completion of spring planting. Narodnoe khozyaystvo 1963 * * *, op. cit., pp. 242, 243, 295, 3 Includes only winter rye in the U.S.S.R.
4 U.S.S.R. Central Statistical Administration, SSSR v tsifrakh v 1963 godu. Moscow, 1964, p. 96, 8 Not available.
5 Flaxsed in the United States; fiber flax in the U.S.S.R.
7 Includes only sugarbeets for factory processing in the U.S.S.R.
8 USDA estimate.
9 United States: Commercial acreage only.
10 United States: 21 fruits only.

Table V-4.—Yields per acre of major crops, 1963

	• •			
Crop	Unit	United States 1	Soviet Union 2	U.S.S.R. as percent of United States
Corn, grain Wheat Rye Oats Rye Oats Rarley Sorghum grain Rice Cotton, lint Soybeans for beans Sunflower seeds Sugarbeets Tobaceo Potatoes	do do do do Pound	18, 3 45, 2 35, 1	22. 3 9. 2 12. 4 18. 1 14. 9 3) 2, 400 687 (1) 726 5. 2 840 67. 9	33 36 68 40 42

¹ Crop Production * * *, op. cit., pp. 4, 5, ² Derived from tables V-3 and V-5. ³ Not available.

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Table V-5.—Crop production, 1963

Crop	Unit	United States 1	Soviet Union ²	U.S.S.R. as percent of United States
Corn, grain. Wheat. Rye. Qats. Barley. Sorghun grain. Rice, rough. Cotton, lint. Soybeans for beans. Sunflower seed. Pranuts harvested for units. Flaxseed. Sugarcane, for sugar and seed. Sugar production 6. Toloaceo. Fiber flax. Potatoes. Sweetpotatoes. Sweetpotatoes. Cirtus. Cirapes. Total fruits (including citrus, grapes and berries), Hay, all kinds.	do	7 6, 439 2, 343, 230 (4) 271, 730	**386,000 31,470,000 **461,000 **255,000 **255,000 **3753,000 (*) 3 300 **3,940 (*) 3 10,000 5 48,559 (*) 419 **1,425,000 (*) 16,700 (*) 2,835 7,067	9 1,578 26 186 9 53 1 32 208 101 16 88 75 42

Table V-6.--Livestock numbers, 1964 1

3, 22, 22, 22, 22, 22, 22, 22, 22, 22, 2			
	United States ²	Soviet Union ³	U.S.S.R. as percent of United , States
All cattle	Million head 106, 7 4 48, 6 58, 1 28, 0 • 3, 0 7 376, 2	Million head 85, 4 \$38, 3 40, 9 133, 9 8, 5 \$ 550, 4	Percent 80 79 70 478 283 146

¹ Beginning of year.
2 USDA, SRS, Livestock and Poultry inventory, Jan. 1. Washington, D.C., Feb. 12, 1965, p. 9.
3 Narodnoe Khozyaystvo 1963 * * *, op. cit., p. 311.
4 2 years and older.
5 All cows.
6 Fact Book * * *, op. cit., p. 31.
7 Chickens and turkeys.
8 All poultry; 1963. Narodnoe khozyaystvo 1962 * * *, op. cit., p. 307.

^{17,} Crop production: 1984 * * *, op. cit., pp. 3, 4, and 50.
2. Narodnoe khozajstvo 1963 * * *, op. cit., pp. 276-286, 299.
3. USDA estimate.
4 Not available.
5 For sugar production.
6. Raw value, 1963-84 processing year.
7 Production in 1963-84 front continental beet and cane, and from Puerto Rico, Hawaii, and Virgin Islands.
USDA, Foreign Agricultural Service, World Agricultural Production and Trade, Washington, D.C.,
November 1964, p. 6.
8 Production from domestic beets.
9 Commercial vegetable production.
10 Excluding berries.

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Table V-7.—Production of livestock commodities, 1963

Comm o dity	Unit	United States	Soviet Union 1	U.S.S.R. as percent of United States
Beef and veal. Pork. Mutton, lamb, and goat. Poultry meat. Lard. Margarine and shortoning. Tallow and grease. Milk (cows). Butter. Eggs. Wool.	do	2 17, 350 2 12, 439 2 770 8 7, 400 4 2, 476 4 4, 355 6 4, 490 8 124, 800 6 1, 434 8 63, 4 9 287	6,930 6,940 2,120 1,760 1,390 51,248 114,640 71,927 8 28.5	40 56 275 24 56 29 10 92 134 45 284

1 USDA estimate.
2 USDA, ERS, Livestock and Meat Situation, LMS-140. Washington, D.C., November 1964, p. 27.
3 Fact Book * * op. cit., pp. 22, 23.
4 USDA, ERS, Fats and Oile Situation, FOS-222. Washington, D.C., March 1964.
5 Narodnoe khozyaystoo 1963 * * * op. cit., p. 204.
6 USDA, FAS, World Agricultural Production and Trade. Washington, D.C., July 1964, p. 10.
7 Tsifrak * * op. cit., p. 37.
8 Narodnoe khozyaystoo 1963 * * *, op. cit., p. 314.
9 USDA, FAS, World Agricultural Production and Trade. Washington, D.C., August 1964, p. 10.

Table V-8.—Area of major grains, 1955-59 average, 1963

	1	955-59 avera	30	1963			
Item	United States ¹	U.S.S.R.2	U.S.S.R. as percent of United States	United States 1	U.S.S.R.8	U.S.S.R. as percent of United States	
Corn, grainOatsBarleySorghum grain	1,000 acres 66, 409 33, 003 14, 391 14, 742	1,000 acres 11, 853 36, 109 24, 809	Percent 18 109 172	1,000 acres 60,549 21,683 11,566 13,582	1,000 acres 17,300 14,100 50,700	Percent 29 65 438	
4 feed grains	128, 635	72,771	57	107, 380	82,000	76	
Wheat Rye Buckwheat Rice	49, 128 1, 729 90 1, 547	158, 722 44, 742 5, 384 290	323 2, 588 5, 982 19	45, 209 1, 594 40 1, 771	159, 600 37, 100 4, 448 247	353 2, 327 11, 120 14	
4 food grains	52, 494	209, 147	398	48, 614	201, 400	414	
Total, 8 grains	181, 129	281, 918	156	155,994	283,400	182	

¹ Crop Production * * * op. cit, p. 41. ² U.S.S.R. Central Statistical Administration, Se l'skoe khozyavsteo SSSR, Moscow, 1960, pp. 132-33: ³ Telfrakh * * * op. cit, p. 96.

Table V-9.—Yields of major grains, 1955-59 average, 1963

	19	955-59 averag	9	1963			
Item	United States ¹	U.S.S.R.2	U.S.S.R. as percent of United States	United States 1	U.S.S.R.2	U.S.S.R. as percont of United States	
Corn, grain Oats Barley Sorghum grain	Bushels per acre 48.7 38.6 29.5 29.2	Bushels per acre 25. 0 22. 9 17. 8	Percent 51 59 60	Bushels per acre 67. 6 45. 2 35. 1 43. 3	Bushels per acre 22.3 18.1 14.9	Percent 33 40 42	
4 feed grains 8	2,072	883	43	2,914	803	28	
Wheat	22. 2 15. 6 17. 5 70. 9	12, 0 13, 4 7, 2 36, 8	54 86 41 52	25.3 18.3 20.7 88.2	9. 2 12. 4 6. 5 53. 5	36 68 31 61	
4 food grains	1, 390	720	52	1,588	576	36	
Total, 8 grains 3	1,874	762	41	2, 501	642	26	

¹ Crop Production * * * op. cit, p. 44.
2 Derived from tables V-8 and V-10.
3 Pounds per acre.

Table V-10.--Production of major grains, 1955-59 average, 1963

	1	955-59 averag	90	1963			
Item	United States ¹	U.S.S.R.2	U.S.S.R. as percent of United States	United States 1	U.S.S.R.2	U.S.S.R. as percent of United States	
Corn, grain Oats Barley Sorghum grain	Million bushels 3, 235 1, 278 424 430	Million bushels 297 828 441	Percent 9 65 104	Million bushels 4, 092 979 406 588.	Million bushels 386 255 753	Percent 9 26 185	
4 feed grains 3	133	32	24	156	33	21	
Wheat	1, 095 27 2 110	1,911 599 38 11	174 2, 218 1, 900 10	1,142 29 1 156	1,470 461 29 13	129 1, 580 2, 900	
4 food grains a	36	75	208	39	58	149	
Total, 8 grains *	170	107	63	195	91	47	

Crop Production * * * op. cit., p. 46.
 USDA estimate.
 Million short tons.

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Table V-11.—Soviet Union: Production of 5 major grains and total grain, USDA estimates and official Soviet estimates, 1958-64

[In million metric tons]

Year	Total grain t		5 major grains 2	
	USDA estimates	Soviet official 3	USDA estimates	Soviet official 3
1958	115.0 94.2 95.0 109.4 111.9 89.3	134.7 119.5 125.5 130.8 140.2 107.5 (6) ±150.0	110. 0 90. 6 89. 4 102. 2 101. 6 81. 6 103. 9	128. 9 115. 3 118. 4 122. 5 127. 9 (4)

¹ Wheat, rye, barley, oats, corn for grain, millet, buckwheat, rice, pulses (immature corn excluded in both categories).

2 Wheat, rye, barley, oats, corn for grain.

3 Narodone khozyoystvo SSSR v 1963 godu, pp. 234-235.

4 Not availablo.

5 The increasing gap between total grain and the 5 major grains since 1958 is due to the rapid expansion of pulses.

6 Implied in Ekonomika Sel'skogo Khozyaystva, No. 2, 1965. p. 2.

CHAPTER VI

EMPLOYMENT

Labor force participation—the civilian labor force as a proportion of the total population 16 years of age and over—is estimated to have increased in the Soviet Union from 74 percent during the years 1958–60 to 77 percent in 1963 (table VI-1). The rise in the participation rate was due largely to the greater participation of women in the labor force, although a contributing factor was the somewhat lesser increase in the population 16 years of age and over resulting from the smaller cohorts born during World War II entering the labor force

The labor force estimates, which are given here for the first time, are based on the census concept of numbers of persons who participated in economic activity during the year. As can be expected, they are markedly higher than the average numbers of persons employed shown in the estimates of civilian employment. The differences between the two series are in large part methodological, although they do reflect the high degree of seasonality and mobility characteristic of

the Soviet labor force.

The estimates of civilian employment shown in table VI-2 reveal some interesting developments. Despite the many claims of larger investment to be devoted to agriculture, employment in that sector did not decrease to a level below 40 million persons until 1963. As a proportion of total civilian employment, however, agricultural employment has decreased from 50 percent in 1955 to 39 percent in 1963. Further decrease in the level of employment is not expected—at least until the impact of recent investments can make possible the transfer of labor to other sectors. Also, the policy of forbidding further conversion of collective farms into state farms recently announced should tend to keep agricultural employment at a relatively high level, as there is evidence that after such conversions in the past a certain proportion of the collective farmers did not continue to participate in either the socialized or private sectors. Within the state sector, the rates of increase in the employment of

Within the state sector, the rates of increase in the employment of workers and employees have undergone perceptible reduction, particularly in the production branches (table VI-4). During the early part of the Seven-Year Plan period, the increase in almost all branches was greater than it has been in recent years. For example, in the period 1959-60, the following rates of increase were achieved: 10.3 percent in industry, 7.1 percent in construction, 5.3 percent in transport and communications, 19.6 percent in science and scientific services, 6.5 percent in trade and procurement, 5.4 percent in education, and 6.6 percent in public health. In the period 1962-63, the increase in the production branches had slowed down to 3.1 percent in industry, 1.3 percent in construction, and 2.8 percent in transport

¹ N. I. Shishkin, *Trudovyye resursy SSSR*, Moscow, 1961, p. 92. In 1959 and 1960, according to this source, 3.4 percent of the able-bodied group did not participate in the labor force after conversion.

and communications. The major services branches, however, maintained somewhat higher rates of growth: 7.1 percent in science and scientific services, 4.4 percent in trade and procurement, and 3

percent in public health.

Several new tables have been incorporated in the employment section this year. The first, on industrial employment (table VI-5), is based on a previous table, but contains a larger number of branches for which data are available on the employment of wage workers (rabochiye), and, as reported for the first time since the 1930's, systematic data on the number of industrial-production personnel in many branches of industry. The second new table, VI-6, includes the average number of days and hours worked in industry by wageworkers. The third new table, VI-7, presents a Soviet economics's own comparison over time of Soviet and U.S. labor productivity, by selected branches of industry. (A single column (5a) from this table was analyzed by Dr. Gertrude Schroeder in Dimensions of Soviet Economic Power, pp. 137-162.) The comparisons here show the difficulty which the Soviet Union has been having in achieving levels of productivity approaching those of the United States. According to these estimates, in only one branch—bread and bakery products—has the level of Soviet productivity exceeded the level of American productivity. In most branches, the Soviet Union has not achieved large relative advances since the initial years of the comparison, and, in many branches, it has even lost ground. For example, the ratio of productivity in the vital synthetic rubber industry has declined from 18.6 percent (U.S.S.R. 1950; U.S. 1947) to 12.1 percent in the most recent year (U.S.S.R. 1959; U.S. 1958). Constant declines in the levels of the U.S.S.R./U.S. ratios appear in 8 of the 31 other branches for which estimates are given.

Detailed estimates of basic employment data pertinent to the socialized economy of collective farms are given in table VI-8. The decline in the total number of participants and in the average number of collective farmers may not continue, not only because of the factors indicated above, but also because of changes in the pension laws which encourage the return of retired persons to the active work force

to obtain the required number of years of continuous work.

Significant changes in the pension law for workers and employees engendered a Soviet estimate of 1 million persons to be added to the active work force from among persons already on a pension or not working. The need for experienced, skilled persons was reflected in changes in the school system which will eventually reduce the length of training in higher and secondary specialized educational institutions, eliminate the 11th year of school, and reduce the period of active service for military personnel with higher educational training. The thrust of all these measures will be to allow a longer working life for trained persons and to relieve the evident shortage of skills throughout the economy.

Comparisons of total employment estimates for the U.S.S.R. and the United States (table VI-11) indicate that U.S. employment has remained at about 68 percent of Soviet employment since 1961. Some slight reduction has taken place in the proportion of total employment in agriculture in the U.S.S.R. (adjusted to approximate U.S. sectors—table VI-12) from 40.5 percent in 1959 to 36.1 percent in 1963. For the corresponding period in the United States, this proportion

was reduced from 8.8 to 7.2 percent. Soviet employment in agriculture, as adjusted to U.S. concepts, is estimated to be more than seven times that of the United States (36,499,000 as compared with 4,946,000).

Table VI-1.—Population, Labor Force, and Employment, U.S.S.R.: 1958-65

[In thousands. Population figures are as of July 1, labor force figures are as of Jan. 1, and omployment figures are annual averages. Figures are independently rounded and may not add to totals; NA indicates data not available and no estimate made]

								_
Population characteristic	1958	1959	1960	1961	1962	1963	1964	1965
Total population	206, 806	210, 492	214, 228	217, 948	221, 409	224, 667	227,808	230, 804
I. Population aged 12 years and over	153, 643	155, 875	158, 374	161, 206	164, 143	167, 171	170, 260	173, 264
Exoluding population aged 12 to 15 yoars	144, 641	145, 484	148, 144	147, 141	148, 621	150, 565	152, 942	155, 632
A. Able-bodied group	119, 613	119, 560	119, 373	119, 526	120,142	121, 162	122, 538	124, 158
 Males aged 16 to 59 years Fomales aged 16 to 54 years 	54, 799 64, 814		55, 322 64, 052	55, 702 63, 824	56, 320 63, 822			59, 368 64, 789
B. Overaged group	25,028	25, 918	26, 772	27, 616	28,478	29, 402	30, 403	31, 475
 Males agod 60 years and over_ Fomales aged 55 years and 	6, 528	6, 730	6,914	7,102	7, 302	7, 526	7, 782	8,064
over	18, 500	19, 188	19, 858	20, 512	21, 176	21, 876	22, 621	23, 411
O. Underagod group	9,002	10, 391	12, 230	14,065	15,522	16, 606	17, 318	17, 632
 Malos agod 12 to 15 years Females agod 12 to 15 years 	4, 580 4, 422	5, 259 5, 132	6, 194 6, 036		7, 872 7, 651	8, 426 8, 180	8, 794 8, 524	
II. Civilian labor force 1	106, 500	108,000	108, 100	110, 100	113, 100	116, 000	NA	NA
1. Workers and omployees 1 2. Collective farmers 1	64, 300 42, 200		68, 900 39, 200		76, 600 36, 500		NA NA	NA NA
lII. Civilian omployment	93, 790	94, 352	95, 692	98, 274	100, 051	101, 048	104, 000	NA
A. Socialized sector	80, 805	82, 409	84, 332	86, 561	88, 300	89, 926	92, 600	NA
 Workers and omployees Members of producers' coop- 	54, 105	56, 509	62, 032	65, 861	68, 300	70, 526	78, 200	² 76, 100
eratives	1, 300 25, 400	1, 400 24, 500	(3) 22, 300	(³) 20, 700	(³) 20, 000	(8) 19, 400	(8) 19, 400	(3) NA
B. Nonsocialized sector	12, 985	11, 943	11, 360	11, 713	11, 751	11, 122	11, 400	NA
1. Private agricultural sector	12,829	11, 769	11. 186	11, 539	11, 577	11, 122	11, 400	NA
(a) Workers and employees. (b) Collective farmers (c) Individual peasants	3,654 9,050 125	3 418 8, 259 92	3, 893 7, 218 75	4, 424 7, 075 40	4, 531 7, 015 31	NA NA 0	NA NA 0	NA NA 0
2. Independent artisans	156	174	174	174	174	(1)	(4)	(4)
IV. Other activities of persons agod 12 years and over—line I less line II— Armed Forces, domestics, day labor- ers, students, housewives, disabled, unemployed, etc	47, 143	47,875	50, 274	51, 106	51, 043	51, 171	NA	NA
Excluding youths agod 12 to 15 years.	38, 141	37, 484	38, 044	37, 041	35, 521	34, 565	NA	NA

¹ Including private subsidiary economy.
² Plan fleuro roported in A. Korobov, "Basic Tasks of the Two-Year Plan," Planovoye khozyaystvo (Plannet Economy), No.2, February 1964, p. 10.
² The system of producers' cooporatives was abolished in October 1980. Employment for this sector is now included in the workers and employees category.
¹ In 1992, further legal restrictions caused the virtual elimination of employment in this category. See note 13, table VI-2.

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Source:

A. Population: Estimates and projections prepared by the Foreign Demographic Analysis Division, Bureau of the Consus.

B. Civilian labor force: All figures are estimated. The total for this category is derived as the sum of the 2 components.

I. Workers and employees: The total is the sum of estimates for the socialized and private subsidiary components.

1. Workers and employees: The total is the sum of estimates for the socialized and particle sidiary economies.

(a) Socialized economy: Estimates of the "average" number of workers and employees on January 1 of each year were prepared by averaging the annual average number reported for a year (table VI-4) with the annual average number reported for the previous year. These beginning-of-year "averages" were expanded to labor force figures for each year by multiplying them by the ratio of workers and employees reported in the census of Jan. 15, 1959, to the "average" figure for Jan. 1, 1959. The census figure used here oxcluded 1,600,000 persons who reportedly are not included in current employment statistics.

(b) Private subsidiary economy: Derived as the difference between estimates of total and collective farm employment in this category. See below.

2. Collective farmers: The total is the sum of estimates for the socialized and private subsidiary economies.

2. Collective farmers: The total is the sum of estimates for the socialized and private subsidiary economies.

(a) Socialized economy: Coraputed as the product of an index (1958=100) of households on agricultural collective farms and the ratio of participants in the socialized economy in 1958 (fablo VI-8, col.1) to the number of households in 1958. The numbers of households are reported in TsSU pri Sovete ministrov SSR, Narodange khozyaystov SSSR v 1963 yodu, statisticheskiy yezhegodnik (The National Economy of the U.S.S.R. in 1962, A Statistical Yearbook), Moscow 1963, p. 330, and TsSU pri Sovete ministrov SSSR, Narodange khozyaystov SSSR v 1963 yodu, statisticheskiy yezhegodnik (The National Economy of the U.S.S.R. in 1963, A Statistical Yearbook), Moscow, 1965, p. 348.

(b) Private subsidiary economy: Computed by expanding reported totals of "man-year employment" in this sector to numbers of participants. The man-year employment data are reported in the Soviet statistical handbooks—TsSU pri Sovete ministrov SSSR, Narodange khozyaystov SSSR. v 1960 yodu, statisticheskiy yezhegodnik (The National Economy of the U.S.S.R. in 1960, A Statistical Yearbook), Moscow, 1961, p. 521, TsSU pri Sovete ministrov SSSR, Narodange khozyaystov SSSR v 1961 yodu, statisticheskiy yezhegodnik (The National Economy of the U.S.S.R. in 1961, A Statistical Yearbook), Moscow, 1962, p. 361, The National Economy of the U.S.S.R. in 1964, A Statistical Yearbook), Moscow, 1962, p. 521, Narodange khozyaystov SSSR v 1962 ***, op. cit., p. 368, and Nar, khoz v 1963 ***, op. cit., p. 368, and Nar, khoz v 1963 ***, op. cit., p. 368. The ratio used to expand the employment figures was computed by dividing the total of 9,900,000 preported in TsSU pri Sovete ministrov SSSR, St'skoje khozyaystov SSSR, statisticalsky yobraik (Agriculture of the U.S.S.R., A Statistical Compilation), Moscow, 1960, p. 450. The collective farmers in the private subsidiary sector reported in this sector in 1959 (6,800,000). The total participants in this sector as report

Table VI-2.—Civilian employment, by socioeconomic category, U.S.S.R., selected years, 1940-64 [Absolute figures are annual averages and are in thousands, NA indicates data not available and no estimate made]

Socioeconomic category 1940 1950 1963 1965	1940	1950	1953	1955	1956	1922	1958	1959	1960	1961	1962	1963	1964
Total 12	79, 019	79, 593	81, 942	87, 476	90,313	91, 512	93, 790	94,352	95, 692	98, 274	100,021	101, 048	104,000
1. Nonagricultural branches 13.	31,020	36, 778	41,032	43, 798	45, 447	47,323	49, 499	51,893	54, 724	57,819	59,866	61, 788	NA
A. Workers and employees 1	28, 216	35, 014	39, 218	41,834	44, 052	45, 978	48, 043	50,319	54, 550	57,645	59,692	61,788	€
1. Industry 4.	10,967	14, 144	16, 261	3, 190	25. 25. 25. 25. 25. 25. 25. 25. 25. 25.	19, 144 4,000	19,675	20,207	22, 291 5, 143	23, 475 5, 270 7, 308	24, 297 5, 150 7, 509	25,057 5,237 7,718	AAZ V
3. Transport and communications ⁶ 4. Trade and public duning ⁶ 5. Public health and education ⁶ 6. Other 7	დდ.4.დ 88888 84198	4.0,0,4 42892 430022	v.v.o.4 848 851 851 848	9, 725 7, 607 7, 295 7, 295	9,6,7,4, 9,828,4 9,838,53	6,4% 9,9350 174 1710 174	8,4% 9,130 60,775 650	24.04.4 88.27.58 18.00.00	4, 675 10, 027 5, 337	5,010 5,853 728	5,253 11,552 5,931	5,487 12,138 6,151	NNA NA NA
B. Members of producers' cooperatives *	2,200	1,500	1,600	1,800	1,200	1,200	1,300	1, 400	ව	3	9	ε	ေ
1. Industry ¹⁸ (Industrial production personnel)	1,700	1,300 200	1,400	1,600	1,100	1, 100 100	1, 100	1,200	වෙ	වව	වව	වව	⊆ ©
C. Independent artisans 12	8	264	214	164	195	145	156	174	174	174	174	(13)	9
Tt. Agriculture 114	47,999	42,815	40,910	43,678	44,866	44, 189	44, 291	42,459	40,968	40,455	40, 185	39, 260	NA
A. Workers and employees 1.	5,015	6, 424	6,812	7,631	7,672	9.147	9,716	9,608	11,375	12,640	13, 139	NA	€
1, Socialized sector 1	2,976	3,881	4,213	4, 628	4, 663	5,605	6,062	6,190	7,482	8, 216	8,608	8,738	NA
, o a	1,760	2, 425	2,552	2,832	2,925	3,961	4,614	4,957	6,324	7,366	7,730	7,874	Ν Α
b. Machine tractor stations and repair- bechinds stations ¹⁶	273 273	678 444	889	1,147	1,058	989	719 367	469 352	348 359	378	68E	668	NA NA
	407	334	356	260	230	278	362	412	451	469	489	465	NA
2. Private sector (in conventional man-year equivalents) ¹⁵	2, 039	2,543	2, 599	3,003	3,003	3, 542	3,654	3,418	3,893	4,424	4, 531	(£)	(E)
											ļ		

See footnotes at end of table.

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Table VI-2.—Civilian employment, by socioeconomic category, U.S.S.R., selected years, 1940-64.—Continued [Absolute figures are annual averages and are in thousands; NA indicates data not available and no estimate made]

Socioeconomic category	1940	1950	1953	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964
II. Agriculture 114—Continued B. Collective farmers in collective farm economy 1.	37, 034	35. 239	33, 919	35, 861	37,027	34, 910	34, 450	32, 759	29, 518	27,775	27,015	NA	Z
1. Socialized sector—total 18	27, 900	27,300	25.829	26, 718	27, 522	25.865	25,400	24, 500	22,300	20,700	20,000	19, 400	19,4
a. Nonagricultural collective farms ¹⁹ . Agricultural collective farms ³⁹ .	27,400	28, 800	371 25, 458	520 26, 198	26, 980	25,280	325 25, 075	399	21, 733	377 20, 323	216 19, 784	202 19, 198	ZZ
(1) Agricultural activities "	24, 700 2, 700	24, 200 2, 600	23, 100 2, 400	23, 300 300	24, 600 2, 400	23,000	22, 400	21, 400	20, 100	18,700	18, 100	17,600	ZZ
man-year equivalents) and control of control	615	900	413	219	665	629	627	658	NA	NA	NA	NA	Z
2. Frivate sector (in conventional man-year equiva-	269	2962	976	1,033	1,046	1, 174	1,118	1, 163	NA	NA	NA	NA	z
C. Individual peasants #.	9, 134 5, 950	7, 939 1, 152	8.090 179	9.143 186	9, 505	9, 045	9,050	8,259	7, 218	7, 975	7,015	(E)	€.
			-	•				_	-	-	•	-	

1 Sum of the components.

2 Excludes workers and employees hired by collective farms: the additional employment of workers and employees having more than one job in state establishments and/or performing tasks for parvate includuals; domestics, day laborers, etc.; (probably) people powerfung full time for the Communist Party: (probably) civilians working in military establishments; and unpaid labor "voluntered" by "social" organizations, such as the Komsomol, in order to plant trees, construct barns on state farms, collect scrap metal, etc.

2 Includes workers and employees, machine state farms, collect scrap metal, etc.

3 Includes workers and employees engaged in normally nonegricultural-type activities of sovkhozy, machine tractor stations, and other state agricultural establishments in these of sovkhozy, machine tractor stations, and other state agricultural establishments.

4 Total number of workers and employees in agricultura employment.

5 Table VI-4.

7 Table VI-4.

8 TSSU pri Sovete ministrov SSR, Nordange thezagawo SSSR v 1980 godu, statisment insurance organizations, and undistributed residual.

8 TSSU pri Sovete ministrov SSR, Nordange thezagawo SSSR v 1980 godu, statisment the sector is now included in the workers and employees category.

9 The system of producers cooperatives was abolished in October 1980, Employment via the system of producers to the workers and employees category.

9 The system of producers to the workers and employees category.

¹⁰ By year: 1940: Estimated as 2.2 percent (of total employment of 79,019,000) reported in TsSU pri Sovete ministrov SSSR, Naradnoye khozyaystvo SISR v 1956 godu, statisticheskiy

yezhegodnik (The National Economy of the U.S.S.R. in 1956, 4 Statistical Yearbook), Moscow, 1957, p. 202 (cited hereafter as Nar. khaz. v 1956). It should be noted tinst the 2.2 percent covers all material production branches. Industry, however, is the largest com-

polatic.

1960: Estimated by assuming the same relationship between the total membership and that the decident of the control of the control

n 1940, 1950, 1955-58: Approximations derived as follows (in thousands):	ived as f	ilows (i	n thou	sands)	
Categories	1940	1950	1955	1956	1957
Nonsocialized personnel	7,604	7,604 1,619	350	362	277
Individual peasants (line II.C, table VT-2) Independent artisans (residual)	δ 7,000 604	355 264	186 164	167	132 145

a U.S. Burean of the Cenera. The Magnitude and Distribution of Civilian Employ ment in the U.S.S.R.: 1982-53, by Murray S. Weitzman and Andrew Elisa. In-statist errational Population Reports, series P-8, No. 88, washington, D.C., Foreign Farnational Population Reports, series P-8, No. 88, washington, D.C., Foreign Farnational Population Reports, series P-8, No. 88, washington, D.C., Foreign Farnational Population Reports, series P-8, No. 88, washington, D.C., Foreign Farnational Population Reports Series P-8, No. 88, washington, D.C., Foreign Farnational Population Reports Series P-8, No. 88, washington, D.C., Foreign Farnational Ledd Inmber of nonsocialized personnel. This was dome in the belief from the total number of nonsocialized personnel. This was dome in the belief farmathet the Row of the Individual peasant employment but more litely a demographic count.

1958: The average of the 1690 and 1955 estimates.

1958: Census figure from TSSU pril Sovete ministrov SSSR, "On the Distribution of Counting United Maria Maria

per man-year. Is Table VT-4. In 1958, machine tractor stations were reorganized into repair-technical stations and many of the tractors and other agricultural machines were sold to collective

For purposes of consistency with pre-1963 and post-1953 data, the figures for 1953-58 were adjusted to remove collective farmers transferred to the employment rolls of machine tractor stations from collective farms following the October 1953 resolutions of the Commisst. Party and U. E.S.R. Government. These employment adjustments totaled munist. Party and U. E.S.R. Government. These employment adjustments totaled munist. Party 1953, 1958,000 for 1955, 1,252,000 for 1954, 1,252,000 for 1954, 1,252,000 for 1954, 1,252,000 for 1954, 1,252,000 for 1955, 1,252,000

281

125 156

The 1932-35 estimates of collective farmers transferred to the rolls of machine tractors stations as eincluded in this bable in the settinate of annual average employment in the socialized sector of the coulective farm economy. It should be noted that these adjusting a stations are included in table in table VI-4.

I realized sector of the conditioned number of overkers and employees and collective farmers. If should be noted that these adjusting the component of the component

Table VI-3.-Workers and employees, by branch of the national economy, U.S.S.R., selected years, 1928-64

[Employment figures are annual averages and are in thousands; NA indicates data not available and no estimate made]

Year	Total	Nonagri- cultural branches	Agri- cultural branches ¹	Year	Total	Nonagri- cultural branches	Agri- cultural branches 1
1928	10, 790 22, 601 26, 744 31, 192 27, 263 38, 895 42, 204 43, 660 47, 300	9, 055 19, 553 23, 887 28, 216 NA 35, 014 38, 049 39, 218 NA	1,735 3,048 2,857 2,976 NA 3,881 4,155 4,442 NA	1955 1956 1957 1958 1969 1960 1961 1962 1963 1964	48, 380 50, 537 53, 148 54, 605 56, 509 62, 032 65, 861 68, 300 70, 526 73, 200	41, 834 44, 052 45, 978 48, 043 50, 319 54, 550 57, 645 59, 692 61, 788 64, 290	6, 546 6, 485 7, 170 6, 562 6, 190 7, 482 8, 216 8, 608 8, 738 8, 910

¹ No adjustment has been made for transfers of some of the collective farmers to the rolls of machine tractor stations between 1953-58, as was done in table 2. Includes forestry.

tractor stations between 1953-58, as was done in table 2. Includes forestry.

Source: Unless otherwise indicated, tables 3 and 4 are based principally on the following:
1928-58: U.S. Bureau of the Census, The Magnitude and Distribution of Civilian Employment in the
U.S.S.R., 1928-59, by Murray S. Weitzman and Andrew Elias. International Population Reports, series
P-95, No. 58, Washington, D.C., Foreign Manpower Research Office, Bureau of the Census, April 1961,
pp. 55-68.

1955, 59: TSSU pri Sovete ministrov SSSR, Narodnove khozyaystvo SSSR v 1900 yodu, statisticheskty
yezhegodnik (The National Economy of the U.S.S.R. in 1960, A Statistical Yearbook), Moscow, 1961, pp. 216217, 312, 626, 638-637, 708.

1960-61: —— Narodnove khozyaystvo SSSR v 1961 yodu, statisticheskiy yezhegodnik (The National
Economy of the U.S.S.R. in 1961, A Statistical Yearbook), Moscow, 1962, pp. 181-182, 560, 567-568, 650.

1952, 1962: —— Narodnove khozyaystvo SSSR v 1962 yodu, statisticheskiy yezhegodnik (The National
Economy of the U.S.S.R. in 1968, A Statistical Yearbook), Moscow, 1963, pp. 130, 446, 453-454, 530.

1963: —— Narodnove khozyaystvo SSSR v 1963 yodu, statisticheskiy yezhegodnik (The National
Economy of the U.S.S.R. in 1983, A Statistical Yearbook), Moscow, 1963, pp. 130, 446, 453-454, 530.

1963: —— Narodnove khozyaystvo SSSR v 1963 yodu, statisticheskiy yezhegodnik (The National
Economy of the U.S.S.R. in 1983, A Statistical Yearbook), Moscow, 1963, pp. 130-446, 453-454, 530.

1964: —— "On the Results of the Fulfillment of the State Plan for the Development of the U.S.S.R.

National Economy in 1964, "Pravda, January 30, 1965, p. 2, and —— SSSR v 1964 yodu, Kratkty
statisticheskty sbornik (The U.S.S.R. in Figures in 1964, A Short Statistical Compilation), Moscow, 1965, pp.

licate	1964	73, 200				48, 300	ĺ						¥8, 100		
ders inc	1963	70, 526	25, 067	5, 237 8, 738	7,874	3968	7,718	6,841	2,301 327	4,213	. 877	5, 487	4, 181 52,685 NA	NA NA 51,306	
and les	1962	68,300 7	24, 297	5,150 8,608	7,730	489 889	7,509	6, 677	2,295	4,055	832	5, 253	4,015 2,562 6 (280)	6 (617) 6 (492) 1, 238	
88–64 e made	1961	65,861 6	23, 475	5, 270 8, 216	7,366	469 378	7,308	6, 518	2,311 327	3,880	790	5,010	3,852 2,403 6 (287)	6 (612) 6 (494) 1, 158	
rs, 19% estimat	1960	62,032	22, 291	5,143	6,324	451 359	7,017	6,279	2,348	3,609	738	4, 675	3, 606 2, 226 6 (249)	6 (588) 6 (496) 1,069	
ed year	1959	56, 509 6	20, 207	4,800 6,190	4,957	412 352	6,663	5,972	2,338 317	3, 317	169	4,389	3, 398 2, 050 (221)	6 (561) 6 (517) 991	
s <i>electe</i> ailable	1958	54,605	19, 675	4, 42 1 6, 562	4, 614 1, 219	362 367	6,332	5,668	2, 330 320	3,018	664	4, 190	3,231 1,888 • (216)	6 (537) 6 (541) 959	
1–4.—Workers and employees, by branch of the national economy, U.S.S.R., selected years, 1928–64 als averages and are in thousands; figures in parentheses are estimated; NA indicates data not available and no estimate made inapplicable]	1957	53, 148	19, 144	4,000 7,170	3,961 2,554	278 377	5,996	5,355	2,323	2,715	641	4,017	3,089 1,739 NA	ANA ANA 888	
, U.S	1956	50, 537	18,500	3,550 6,485	2,925	888	5,840	5, 216	2,307	2,609	624	3,826	2,935 1,666 NA	ANA RAN RAN	
onomj 1 indica	1955	48, 380	17,367	3, 190 6, 546	2,832 3,065	88	5,650	5, 039	2, 302 285	2,452	611	3, 725	2,869 1,634 NA	NA 856 856	
nal ec ted; NA	1954	47,300	17,016		2, 639 (2, 966)	NN AA	NA	NA	2,321 NA	NA	(595)	(3, 668)	2,848 1,519 NA	AN AA 820	
: <i>natio</i> estimal able]	1953	43, 660	16, 261		2, 552 1, 118	356 416	5,352	4,770	2,275	2, 235	582	3, 463	2, 698 1, 404 NA	AN AN 765	
of the eses are napplica	1952	42, 204	15, 556	155	2, 533	366	5,160	4, 595	2, 232 244	2,119	565	3, 495	2,775 1,435 NA	AAN AAS	_
ranch sarentbe	1950	38, 895	11		2,425	334	4 624	4.082	2,068	1,792	542	3, 325	2, 666 1, 308 NA	NA NA 659	ļ.
s, by b	1945	97 263	11		2,147	NZ A A	3 537	3,111	1,841	1,080	426	2, 462	1, 747 NA NA		
<i>ployee</i> : ids, figu	1940	180			1,760	407	90	3 495	1,752	1,470	478	3, 303	2, 519 1, 382 NA		
nd em; thousar	1937	96 744 3	10 119	·	1,748	295	900 %	9,651	1, 512 1, 512	929	375	(2, 509)	3(2,038) 1, 264 N.A		
<i>Sers al</i> are in	1932	1			2,259	35		2, 041	1, 297	574	22	(2, 184)	*(1,551) 855 NA		
- <i>Worl</i> ges and	1928	$\neg \neg$		0,170	345	1,315	1 96 1	1, 900 0.00	971	195	95	(583)	3 (528) NA		
TABLE VI-4.—Workers and employees, by branch of the national economy, U.S.S.R., selected years, 1928-64 [Employment figures are annual averages and are in thousands; figures in parentheses are estimated; NA indicates data not available and no estimate made; and leaders indicate [Employment figures are annual averages and are in thousands; figures in parentheses are estimated; NA indicates data not available and no estimate made; and leaders indicate			TrotalIndustrial-production per-	somel) Construction (construction-installa- tion personnel) Agriculture	Sovkhozy and other state agricul- tural establishments	M.1.s/k.1.s . Unspecified agricultural establish- ments?	Forestry	Transport and communications	Transport. Railroad transport. Water transport.	Motor vehicle, urban electrical and other transport; freight	Communications.	Trade, procurement, material-technical supply and sales, and bublic dining.	Trade, procurement, and material- technical supply and sales Retail trade	Material-technical supply and sales. Procuement. Public dining.	

See footnotes at end of table, p. 73.

	ners a	n orners and employees,	rpioye	es, oy	oy oronch		of the national	onal ec	economy,		U.S.S.R.		selected years, 1928-64-Continued	rs, 19%	-49-8%	-Con	tinue	" C"	
Lampioyment iigures are annual aver	ages an	averages and are in thousands; figures	thouse	nds; fig	ures in	parent)	reses ar	parentheses are estimated; inapplicable]	ted; NA	A indic	ites dat	a not a	indicates data not available and no estimate made; and leaders indicate	and no	estima	te made	s and le	aders ii	dicate
	1928	1932	1937	1940	1945	1950	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1064
Public health and education	1, 206	2,106	3, 495	4, 531	NA	6,080	6, 608	6,815	N A	7.907	7. 933	8 350	77.5	1	Ť.			3	Tool
Public health Education	399 807	1,437	1, 127 2, 368	1, 507 3, 024	1,419 NA	2,051 4,029	2, 226 4, 382	2, 308 4, 507	NAN	2,627	2, 736			325	5 5 5	677	3,818	3,933	
Educational institutions.	725 25	1,232	2,089	2,663	32, 551	(3,315	3, 573	3,647	NA	3.988	1,094		4,378	556	88	5, 165	5, 521		12,800
Of which— Geological prospecting Ilydrometeorological services.	10 8	82	30 15	52	NN AA	245	N A A	320	NA A	8358 422	879 422	25.5	333	44	NA AN	NA	NA NA	A N	
"Other branches"	1, 405	2, 733	3, 169	3,949	NA	4,272	4, 442	4, 484	NA	4, 295	4, 403	4. 471	4 650	11	- !!	7.00	1 100 1	¥ 1.	
Housing-communal economy Administrative organs State and economic administra-	147 1,010	, 661 1, 650	1,023 1,488	1,221	NA 1,645	1,210	1,315	1,345	NA	1,400				313	8 88	88 8		2, 182	e S
tive organs Administrative organs of coopera-	NA	NA	NA	NA	NA	NA	NA	NA		(1,225)	NA	Ą,	163	146)	120)	166	1, 310 (1,184)	NA N	
the and social organizations. Credit and insurance organizations. Other residual. Capital repair of buildings and	NA 88 158	A 28 28	NA 193 465	NA 262 44	NA 197 NA	NA 264 967	NA 262 1,079	NA 263 1, 150	NNA NA NA	8 (136) 265 1,269	NA 266 1, 292	NA 261 1,337	, 464 1, 464	, 127) 280 1, 739	s (124) 265 1, 967	277 277 2.027		NA 289 373	
	AZZZZ AAAAA	ZZZZZ	AAAAA XXXXX	ZZZZZ	AAAA ZZZZZ	ZZZZZ PAPP	ZZZZZ	ZZZZ APAA	ZZZZ	AAAA AAA	ZZZZ AAAA	NZZZ VAVA	ZZZZ A444	ZZZZ	4444	\$5.5 \$6.0 \$6.0 \$6.0 \$6.0 \$6.0 \$6.0 \$6.0 \$6.0	<u>8</u> 38	ZZZZ	4, 000
Other unidentified	NA	NA	NA	NA	NAN	NA A	NA A	NA	AA A	ZZ V V	AA AA	ZZ AA	NA AA	NZ AA	VY VY VY		(477) (477)	N N A A	

1 No adjustment has been made for transfers of some of the collective farmers to the stations trasted stations between 1953 and 1953, as we done in table VL-2.

2 Includes veterinary services, artificial insemination stations, research stations, etc. A dijusted for reclassification of the personnel engaged in collection of secondary raw materials. The adjustment involved transferring the following number of persons from the "Trade, procument, and material-bedmical supply!" estegory to the "Other" estegory; 1952, 4,000; 1952, 13,000; and 1937, 16,000 (0.8 percent of total, based on the 1940 of relationship: 2,194-2,539-992 percent).

5 Trist print in Sovete ministrov SSSR Serestangu torgonlya, statistichestity shoralit (Soviet Trade, A Scatistical Complication), Moscow, 1954, p. 131.

6 Estimated from data reported on employment in the R.S. F. S.R. in wholessle trade, material-bedmical supply and sales, and procurement. These reported data were expanded to an All-Union total by use of the ratio of employment in all trade, procurement, material-bedmical supply and sales, and procurement reported data were expanded to an All-Union total by use of the ratio of employment in all trade, procure material-bedmical supply and sales, and procurement veryord in less than 750 of 158 horsen the derived estimates for relail trade and those reported in less than 750 of 158 horsen the derived estimates for relail trade and those reported in less than 750 of the R.S. F. S.R. in 1963, A. Ratistical Fearhout, Moscow, 1963, pp 417-148, and 443. Due R.I. the reported totals. The reported data for retail trade and public diming is figured to reported totals.

Source: See source note to table VI-3.

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Approved For Release 2002/04/01: CIA-RDP79T01049A003000150001-1 74 CURRENT ECONOMIC INDICATORS FOR THE U.S.S.R.

Industrial-production personnel and wage workers, by branch of industry, U.S.S.R., selected years, 1940–63. sannual averages and are in thousands; leaders () indicate data not available and no estimate made; figures in parentheses are estimated]	1961 1962 1963 1	2 23,476.0 2 24,297.0 25,057	19,548.0 220,176.0 20,760	6, 207. 0 2 6, 586. 0 2 a 6, 938		5 1, 514, 4	41,005.0 1996.0 1,158	4154.0 8185.2 185	888.5	s 96. 7	18.8 20		6 126.3	7 (22.3)
elected yer res in parent	1960	2 22,291.0 2:	2 18,574.0	2 5, 665. 0 4		6 1, 557. 2	\$ 1, 196.3 2 1, 031.0	2 145.0	4 (72.0)	5 98.3 4 (73.0)	\$ 18.2 -		\$ 141.0	7 (23.4)
S.S.R., s made; figu	1959	3 20,207.0	4 16,793.0	4 5, 149. 0		£ 1, 617. 2	\$ 1, 245. 4 4 1, 074. 0	4 140.0	• 85.4 • (70.0)	4 (70.0)	å 17. 6	4 (3.4)	1.58.1	7 (22.8)
ustry, U.A	1958	2 19,675.0	2 16, 279. 0	2 4, 932. 0	44,355.0	1,644.3	\$ 1,256.2 2 1,071.0	4 174.5 2 138.0	\$ 86.0 4 68.0	\$88.5 470.0	\$ 18.1	1 (3.2)	\$ 172.7	7 (22 8)
h of indu able and n	1957	3 19.144.0	4 15,760.0	44,736.0			4 1, 021. 0	4 128.0	4 (65.0)	4 (63.0)		4 (2.8)		
by branci a not avail	1956	2 18, 500.0	2 15,226.0	4 4, 539.0			4 968.0	4125.0	4 (64.0)	(0.19)		4 (2.7)		
<i>oorkers,</i> i dicate dat	1955	2 17,367.0	2 14,281.0	2 4, 256.0			2 897.0	2 122.0				4 (2.1)		
d wage u rs () in	1953	2 16,261. 0	2 13,179.0	23,837.0			2 793.0	2 107.0				4 (2.1)		
<i>onnel an</i> snds; leade	1952	\$ 15, 556	4 12, 474	43,581			4 763	4 102						
ion pers e in thous	1950	2 14,144.0	2 11,208.0	2 3, 216.0			2 732.0	2 90.0	4 53.0	7 (37.0)				
<i>l-product</i> ages and ar	1940	2 10,967	28,290	22,395			2 436	2 45	4 28	417				
TABLE VI-5.—Industrial [Employment figures are annual avers	Branch of industry	Total; Industrial-production personnel*_	Wage workers	Machine-building and metal-working, in- cluding repair enterprises: Industrial-production personnel— Wage workers. Machine-building and metal-working:	Mage workers. Repair enterprises: Industrial-production personnel Wage workers.	Fuel: Industrial-production personnel Wage workers	Coal: Industrial-production personnel	Industrial-production personnel	Industrial-production personnel.	On renema: Industrial-production personnel Wage workers.	Gas extraction and reming: Indust::al-production personnel	Gas extraction: Industrial-production personnel. Wege workers. Gas refuing: Industrial-production personnel.	Peat: Industrial-production personnel	Other: Industrial-production personnel

	1, 161 979							4.4 88 288					2a 145		
	2 947.0	8 1, 122.0	8 796.0	7 (326.0)				° 2, 639. 8 2* 2, 275. 0	9 1, 257.0	9 1, 185.6	9 314. 5	9 379.0	9 166.0 2a 143.0	\$31.2	
	4 923.0	8 1,090.0	8 774.0	7 (316.0)				9 2, 619. 6	9 1, 25L 7	9 1, 177.1	9 325.7	1363.9	9 159, 5	931.3	
	2 886.0	8 1, 047. 0	8 747.0	7 (300.0)			4 (500.0)	9 2, 597. 5 24 2, 236. 0	9 1, 299.3	9 1, 111. 5	9 301.8	9 336.4	9 154 0 2a 133 0	932.7	
	4841.0	8 996.0	8 719.0	7 (277.0)						11 1. 100.0					
4 (13.9)	2812.0	8 966.0	\$ 695.0	7 (271.0)			(494.0)	9 2, 501. 4 2s 2, 148. 0	91,369.7 101,172.2	9 949.2	9.303.8	9 232 8	1150 6 1129 0	931.9	
4 (13.3)	4 764.0														
4 (13.6)	4 751.0														
	2742.0						+ (486.0)								
	2 706.0						4 (497.0)								
	4 675						4 (499)	,							
	2 604.0						4 (458.0)	22.1 678.0	2					7 TOS. O	
-	2 405														
Wage workers	Wage workers Ferrous metallurgy: Industrial-production personnel Wage workers	Ferrous metallurgy in metallurgical plants: Industrial-production personnel	Wage workers. Pig fron, steel, and rolled products: Industrial-production personnel.	Wage workers Other products of metallurgical plants: Industrial-production person-	Wage workers Ferrous metallurgy in nonmetallurgical	plants: Industrial-production personnel	Nonferrous metallurgy: Industrial-production personnel	Mage workers. Logging, woodworking, and paper: Industrial-production personnel	Wage workers	Wage workers	Wage workers	Wage workers	Wage workers Paper: Industrial-production personnel	Wage workers. Wood chanicals and wood hydrolysis: Industrial production personnel. Wage workers.	

See footnotes at end of table, p. 79.

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ntinued	1963 1	2,349														
33—Co1 re estimate	1962	12 2, 307. 5	12 185.2	12 257. 4 15 907 0	12 265. 4	12 261.1	13 72, 4	127.1	12 463.9	12 135.0	12 23. 2	12 162, 8	12 16, 6	18 31. 7		7 (305.7)
, 1940-t	1961	12 2, 241, 3		12 244, 1	12 257.8	12 252. 3	13 69. 5	12 126.8	12 440. 3	12 131. 2	13 22.9	12 153.9	12 17. 5	13 32.9		7 (294.6)
ed years ure s in par	1960	12 2, 146. 0 2 1, 743. 0		12 238.3	12 251.1	12 245, 4	12 66.6	12 126.3	12 419.9	12 126.1	13 24. 1	12 142, 4	12 16.5	12 33, 9		7 (285.0)
l., select e made; fg	1959	12 2, 089. 8 4 1, 688. 0	12 163.6	12 218.0	12 250, 7	12 246.9	12 69.8	12 127.7	12 406.7	12 115.9	18 22, 2	13 140.6	12 15.6	12 36.0		7 (280.7) 7 (276.1)
U.S.S.1	1958	12 2, 068, 1 2 1, 662, 0	12 164.7	12 199, 4	12 251, 1	12 249. 1	12 64, 3	12 131.8	12 395. 4	12 113.8	13 23. 2	12 141. 4	12 16.4	12 36.8		7 (280. 7)
ndustry, ilable and	1957	4 1, 645.0														
<i>nch of i</i> tta not ava	1956	41,579.0	13 141.0	12 148.0 15 117.9						13 89.0						
, by bra indicate de	1955	2 1, 478.0														
workers	1953	21,398.0														
nd wage Isands; lead	1952	4 1, 323														
sonnel a are in thou	1950	21,232.0	13 122, 0	13 117.0 15 76.3						13 82.0						
tion per erages and	1940	z 1, 049														
Table VI-5.—Industrial-production personnel and wage workers, by branch of industry, U.S.S.R., selected years, 1940-63—Continued [Employment figures are annual averages and are in thousands; leaders () indicate data not available and no estimate made; figures in parentheses are estimated	Branch of industry	Food: Industrial-production personnel Wage Workers	Industrial-production personnel Wage workers	Tidustrial-production personnel Wage Workers	Industrial-production personnel Wage workers.	Mage workers. Veorable offs	Wage Workers. Flour milling and grain gracking.	Industrial production personnel Wage workers	ıstrial-production e workers	Cauty and comectionery products: Industrial-production personnel Wage workers	Industrial-production personnel Wage workers	Thdustrial-production personnel———————————————————————————————————	Industrial-production personnel	ection	nonalcoholic drink, tea, other food products, perfumes and cosmetics, sait).	Industrial-production personnel Wage workers

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	2 273	1 326.0		2 404.0	2 452.0			2 494.0		2 584 0		2 705.0	008
Industrial-production personnel		1,678.0	41,885	21,975.0	22,158.0	4 2, 385. 0	4 2, 467. 0	16 2, 943. 7 2 2, 515. 0	16 2, 999. 6 4 2, 379. 0	16 3, 893. 5 2 3, 371. 0	16 3, 990. 2 4 3, 472. 0	16 4, 063. 7 2 3, 544. 0	4, 070 3, 550
on personnel-								16 1, 602.8	16 1, 610. 1	16 1, 814. 0	16 1,849.8	16 1, 864. 8	
Wage workers. ton grining: Industrial-production personnel.								16 29.6	16 28.8	16 29. 1	16 27. 4	16 26. 7	
Wage workers								16 727. 2 17 705. 0	16 722.3	16 776. 0	16 786.7	16 787.6	
mage workers								16 191. 5	16 197. 4	16 234.3	16 249.6	16 255. 9	
wage workers(linen): Industrial-production personnel								16 131. 4	16 133. 2	16 137. 7	16 138.7	16 137. 5	
Wage workers. Silk (including silk reeling): Industrial-production personnel.								16 110, 2	16 114. 1	16 122.9	16 126.8	16 129. 3	
wage workers- ap and jute: Industrial-production personnel								16 43, 1	16 37. 4	16 41.0	16 40. 0	16 36.8	
wage workers. tted wear. Industrial-production personnel								16 200.7	16 207. 4	16 254.0	16 257.6	16 260.2	
wage workers								16 46.8	16 47.6	16 65.6	16 66.7	16 64, 5	
er: Industrial-production personnel								7 (122.3)	7 (121.9)	7 (153.4)	7 (156.3)	7 (166.3)	
m goods: Industrial-production personnel								16 841. 7	16 869, 7	16 1, 372. 3	16_1, 413.8	10 1, 454 4	
Wage Workers Leather, fur, and shoe: Industrial-production personnel								16 49.0	16 512.0	16 687.8	16 712.6	16 727.9	
wage workers. ther: The control of t								16 53.4	16 54. 7	16 63. 7	16 67.8	16_67.2	
Leather substitutes: Industrial-production personnel								16 18.7	16 23. 2	16 27. 2	16 29, 7	16 30. 7	

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[Employment figures are annual averages and are in thousands, leaders () indicate data not available and no estimate made; figures in pareutheses are estimated]	ages and a	re in thous	ands; lead	ers () ir	idicate dat	a not avail	able and n	o estimate	made; figu	res in pare	utheses are	estimated]	
Branch of industry	1940	1950	1952	1953	1955	1956	1957	1958	1959	1960	1961	1962	1963 1
Light—Continued Leather, fur, and shoes—Continued Leather luggage and haberdashery													
Industrial-production personnel. Wage workers.								16 29. 7	18 30, 7	16 48.9	16 51.3	16 53, 4	
Fur: Industrial-production personnel. Wage workers					1 1			16 39. 4	16 39. 2	16 47. 1	16 50, 1	16 51.6	
Shoe (including rubber shoes): Industrial-production personnel. Wage workers.								16 333.9	16 351.8	482, 2	494.2	503.4	
Other: Industriat-production personnel. Wage workers								1 (14.9)	7 (12.4)	7 (18.7)	7 (19.5)	7 (21. 6)	
Other (including tanning?): Industrial-production personnel Wage workers								7 (9.2)	1 (7.8)	7 (19.4)	7 (14.0)	7 (16.6)	
Construction materials: Industrial-production personnel Wage workers	2 252	2 547. 0	4 649	2 720.0	2 830.0			18 1, 217. 5	1,316.3	18 1, 316. 3 18 1, 493. 4	19 1, 575.3	18 1, 597.8	1, 583
Cement: Industrial-production personnel								18 69.5	18 77 3	18 83	18 86 5	19 04 7	1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1
Wage workers Lime, gypsum (alabaster), and other	4 (26)	19 35.3			4 (42.0)	4 (44.0)	4 (48.0)	19 51.2	4 (57.0)	19 59.4	18 61.5	19 65.2	
Joean Onturn materials: Industrial-production personnel Wage workers								18 66.1	18 67. 7	18 76.2	13,77,1	18 66.9	
Wall materials (including bricks) and tiles:		1					1						
Industrial-production personnel								18 429.2	18 456, 6	18 515.5	18 517.6	18 492, 2	
Prefabricated reinforced concrete, concrete structures, and parts. Industrial-production personnel					,			18 327.3	is 401. 2	19 484.1	19 544.5	18 592 7	
Asbestos-cament goods: Industrial-production personnel								19 14.0	18 14. 4	18 15.6	18 17.7	19 18.6	
Soft roofing materials: Industrial-production personnel———————————————————————————————————								18 8. 7	18 8. 4	18 11. 0	18 11.2	18 12, 1	

		249 216					ennost i The street of the st
.18 184.6	7 (136.0)	18 241.0	13 189.1	18 51.9			Promyshennose' i 1, Moscow, 1962, 1, Moscow, 1962, 1, Moscow, 1962, 1, Scialized Labor o industrial-produc- seas enistkopediya, vol. 2, vonstruction), vol. 2, tog, pp. 37 and 42, tog, pp. 37 and 42, sow, 1961, p. 42. Gandbook on Ceneni mnosti stroitel'nykh to have been 189,97 to have been 189,97 this industry. See
18 189.8	7 (126.9)	18 234.8	18 183.9	18 50.9			Ekonomicheskaya entsiilopediya, Industry and Construction), vol. cheory promyshennosta i ekonomish ood Industry and Economisms of Industry and Economisms of St. A percent) of wage workers to nov et al. (editors), Ekonomichesk mite Encylopedia, Industry and Control and the Meat Industry), Moscow, by problemy organizatis promyshly on of Industral Production), Moscow, like po protrodestru tsementa (Hostownyy komitet po promyshlen oscow, 1863, d. 83. Nat. 1, 1949, there are reported thinding 1953, wage workers, in inding 1953, p. 83. Mar. 1, 1949, there are reported thinding 1953, wage workers, in inding 1957, p. 178.
18 181.2	7 (116.7)	18 226.3	18 176.8	18 49. 5	4 (247.0)	21 163.5	heskaya erz nd Constru myshlennos try and Ed nt) of wage (editors), E ppedia, Ind "nosti trud at Industry, pragnized strał Produ trodsitru trud strał Produ trodsitru trud strał Produ 1200 wage 1200 wage 120
18 167.4	7 (123.3)	18 215. 4	18 1 6 8. 6	18 46.8			Ekonomici Industry a zehevog progod Indus Sod Indus Sod Indus Sod Indus
18 173.1	7 (129.6)	19 208.6	18 163.2	18 45. 4	4 222.0		11 A. N. Yefimov et al. (editors), Ekonomicheskaya entsiklopediya, Promyshkennosë i stroidel stoo (Economic Encyclopedia, Industry and Construction), vol. 1, Moscow, 1902, 001.384. 12 Pron. SSSR, p. 424. 13 Yen. SSSR, p. 424. 14 Evon. SSSR, p. 424. 15 You vasil'yever, Rarvitite pishchevy promyshlennostn i ekonomiya obsichestremacy trude r SSSR. (Development of the Food Industry and Economiza of Scialized Labor trade r SSSR. (Development of the Food Industry and Economizates to industrial-product Estimated from a reported rate (384. percent) of wage workers to industrial-production personnel, grown in A. N. Vefimov et al. (editors), Ekonomicheskaya entsitloppediya, the Promyshlennost is and Construction), vol. 2, Moscow, 1964, oi. Spride stoo (Economic Encylopedia, Industry), Moscow, 1964, pp. 37 and 42. 18 S. S. Shnitser, Rezerry rotat profzenditel nost intude v myasnoy promyshlennosti u. S. S. Shnitser, Reserves for aloof Productivity Grouth in the Meat Industry), Moscow, 1963, pp. 37 and 42. 18 From. SSSR, p. 334. 19 From. SSSR, p. 314. 19 From SSSR, p. 314. 20 From SSSR, p. 314. 21 Broin editor), Separated vite po profaredstru tsenenia (Handbook on Cenent Production). Issued by the Goudarstreamy komilet po promyshlennosti stroitel'nykh industrial-production personnel, including 1963, p. 37. 22 Average numbers in 1983. As of Mar. 1, 1994, there are reported to have been 189, 370 and Average numbers in 1983. As of Mar. 1, 1994, there are reported to have been 189, 370 industrial-production personnel, including pechalia v SSSR (Questions of Fluming in the U.S.S.R.), Moscow, 1977, p. 116. 23 Franking in the U.S.S.R.), Moscow, 1977, p. 116.
							move et al. R, p. 424. R, p. 424. Il 'yev's, Religional de la la l'yev's, Religional de la
							11 A. N. Yeffmov et a coliel' stro (Economic E 1 384. 12 Pron. SSSR, p. 424. 13 Yev, V. Vasil'yeva, J. 424. 14 Te Ethmated from a re on personnel, given in 18 George, 1944. col. 921. 14 S. A. Kheymman, E. Economic Problems in Prom. SSSR, p. 384. 15 A. Kheymman, E. Economic Problems in Prom. SSSR, p. 314. 18 Prom. SSSR, p. 314. 19 Prom. SSSR, p. 314. 19 Prom. SSSR, p. 314. 20 Areage numbers in adustrial-production production producting in the U.S.S 11 Ekon. entsit. * * *
						21 141.3	
							1 categories: tites, minor onindustrial ervices, and tugust 1964, sskiy skornik egorik (The 1965, p. 122. onomic Indi- tudingraphy," in Growth," in ekonomic hyge konomic skord Issue),
		t					ll personne le, sapper ment in n personal si y, No. 8, J, sutistich lessity pp. 84 hound Re house y house y house
						20 125.0	thrity of all thrity of all thrity of all thrity of all thridy of encountry of Heruld, all Sassa Moscow, 1 Ventrolish of States, -7, pp. 66 -7,
							duction ac duction ac housing, it (Statist) it (Statist) orgalism, yallotton), yallotton yallotton, yallotton table V-A
Extraction and processing of non- metallic construction materials and light aggregated.		Mage workersGlass and chinaware: The desired for the first f	Wage Workers	Wage working the Chinaware and glazed pottery: Industrial-production personnel	Wage workers. Electric power: Industrial-production personnel	Wage workers Printing: Industrial-production personnel Wage workers	•(Includes employment in the basic production activity of all personnel categories: wage workers, engineering-technical personnel, salaried employees, apprentities, minor activities in industrial enterprises, such as housing, education, personnal services, and public health.) 1. "Statistical Materials," Vestnik statistiki (Statistical Herald), No. S. August 1984, p. S. 1. "Statistical Materials," Vestnik statistiki (Statistical Herald), No. S. August 1984, p. S. 2. T.SU pri Soveta ministrov SSSR, Promyshlemack, statistichekiy shornik in SSSR, and statistical Moscow, 1964, pp. 84–85. (Cited Industry of the U.S.S.R., A Statistical Noscow, 1964, pp. 84–85. (Cited National Economy of the U.S.R. R. in 1963, A Statistical National Economy of the U.S.R. R. washington, 1964, table V-A-f., pp. 65–7. 3. From, SSSR, P. 185. 8. From, SSSR, p. 185. 9. From, SSSR,

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	1963	365.0	303.7 17.6	20.9	15.8	ε.) Η	7.	264.5	20, 680.0 182.9	(5, 469. 9) 175. 1	6.93 86.6	(37.9) 151.6
128-63	1962	365.0	304.0	22.3	14	es vá	.7	263.4	0.4	(5,164. 6) (5,314. 4) (5,469.	6.93 86.6	(36.8)
.—Average number of days and hours worked in industry by wage workers, U.S.S.R., selected years, 1928-63. [Figures in parentheses are estimated; NA indicates data not available and no estimate made]	1961	365.0	3 24.7.7.88	8	16.9	5.1	.7	264.2 95.6	0.6		6. 93 86. ô	(35. 8) 143. 2
elected 1	1960	366.0	306. 17.	21.	16.6	2	.7	266.9 96.6	18, 574. 0 164. 3	(4, 957. 4) 158. 7	6.94 86.8	(34. 4) 137. 6
.S.R., s made]	1959	365.0		- 23	17.5	4.9		266.5 96.5	16, 793. 0 148. 5	(4, 475.3) 143.2	7.56 94.5	(33.8)
rs, U.S estimate	1958	365.0	307.3 16.9 290.4	21.5	16.1	5.4	6.	268.0 97.0	16, 279. 0 144. 0	(4, 362. 8) (4, 4	7.70	(33.6)
number of days and hours worked in industry by wage workers, $U.S.S.R.$ Figures in parentheses are estimated; NA indicates data not available and no estimate madel	1957	365.0 NA	NA NA 291.0	22.7	NA NA	NA	6.	267.4	15, 760.0 139.4	(4, 214. 2) 134. 9	7.90	(33. 3) 133. 2
by wag ot availat	1956	366.0	309.1 16.0 293.1	20.0	14.6	5.4	1.0	272. 1 98. 5	15, 226. 0 134. 6	(4, 143. 0) 132. 6	7.96 99.5	(33.0) 131.9
ndustry tes data n	1955	365.0	309.5 16.0 293.5	19.3	13.7	5.6	o. 	273.3 98.9	14, 281. 0 126. 3	(3, 903. 0) 124. 9	8.0	(31.2)
ted in i	1952	366.0	310.2 15.4 294.8	18.9	14.4	4.5	1.1	274.8 99.5	12, 474. 0 110. 3	(3, 427. 9)	8.0 100.0	(27.4)
urs word	1950	365.0	309.5 14.9	17.4	13.4	4.0	ъ. —	276.3	11, 308. 0 100. 0	(3, 124. 4) 100. 0	8.0 100.0	(25.0) 100.0
and horses are est	1940	.366.0 64.0	302.0 13.0 259.0	17.5	13.9	3.6	1.7	269.8 97.6	8, 290. 0	(2, 236, 6) 71, 6	8.0 100.0	(17.9)
of days	1937	365.0	298.2 13.7 284.5	21.8	17.6	4.2	2.4	260.3 94.2	7,924.0	(2, 062. 6) 66. 0	7.0 87.5	(14. 4) 57. 8
umber Figures ir	1932	366.0	298.9 15.1 283.8	19.4	14.3	5.2	7.2	93.1	6,007.0 53.1	(1, 545.0)	6.99	(10.8)
verage 1	1928	366.0	303.7 14.2 289.5	18.9	15.3	3.6	7.6	263.0 95.2	3, 124. 0	(821.6)	7.81 97.6	(6.4)
TABLE VI-6.—A		1. Number of calendar days	days off and holidays. Less: paid regular leave. 3. Maximum number of workdays. Less: sick, matemity, and ad-	ministrative leave Of which:	Daid out of social insurance account. Administrative leave (authorized but tour called	plant administration) ————————————————————————————————————	day plant work stoppage) 4. Actual average number of days worked (including intrashift		(1959=100) 6. Estimated arrual number of man-days, corked in indus-	try by wage workers (millions) (line 4 × line 5)	worker in industry (excluding overtit) (1950–100) 8. Estimated amusi number of man-hours worked in indus-	10.50 10.1

Table VI-7.—Soviet comparisons of physical output per production worker in selected industries, United States and U.S.S.R., selected years, 1939-59

[U.S. level=100; NA indicates data not available]

	(1)	(2)	(3)	(4)	(5)	(6)
Industry (products)	U.S.S.R. 1940;	U.S.S.R. 1950;	U.S.S.R. 1955;	U.S.S.R. 1956;	1957;	S.R. U.S. 956	U.S.S.R. 1959;
	U.S. 1939	U.S. 1947	U.S. 1954	U.S. 1954	(a)	(b)	U.S. 1958
Ferrous metallurgy:							
Plg iron, steel, and rolled products.	48.3	41.8	54.6	49.1	53. 0	51. 5	59.7
Steel and rolled products		41.0	52.9	47.3	51, 1	49.7	59. 9
Steel	46.3	43. 2	54.7	48.7	53. 2	51.9	62.4
Rolled products	41,7	38.2	49. 7	45.5	48.4	46.9	56.7
ron ore		25. 9	41.6	43. 9	37.3	36.4	35, 1
Coke		30.0	46. 1	49.1	42.4	41.4	48.6
Of which:	51.3	31.8	35, 9	38.3	28.2	28.8	32.0
Underground mining	53. 7	34. 7	36.7	40.3	28,6	28.6	32.1
Open-pit mining	41.7	47.4	79.5	98.0	78.2	78.2	94.8
etroleum refining (benzine, kerosene,			1010	0010	1012		01.0
ligroine, and diesel fuel)	48. 2	41.0	37.0	43. 4	42.1	42.1	46.2
Metal-cutting machine tools	NA.	47.3	74.9	74.4	69. 5	69. 5	62, 0
synthetic rubber	N.A	18.6	17.5	17. 6	15.6	15.6	12. 1
Artificial fibor	23.4	11, 9	17.4	18. 5	19.8	19.8	20.6
ogglng	29. 1	26.3	32.2	28.9	30.7	34. 1	36.9
amberaper and paperboard	55.9	66, 5	67.6	63. 1	73.8	73.8	75.4
aper and paperboard	39.8	33.3	39, 7	42, 1	39.6	39. 6	44.4
Ceinent	22.8	28.1	34, 3	35, 5	32.9	32. 9	34.8
!onstruction brick	45, 5	35 7	42.7	43. 5	46. 2	46. 2	57. 9
Jote and gypsum	27. 1	17. 4	21. 6	22. 6	22.0	22. 0	24, 8
Cotton Raprics	39. 7	38. 7	41. 3	37. 7	38.5	38. 2	42.0
Woolen fabrics	50, 3	45, 2	45. 6	45.1	41.5	42.5	41, 0
Hik and synthetic fabrics	16. 5 33. 1	14. 4 37. 5	27. 7 41. 4	38, 0	42, 3	41. 9	37. 4
Rubber footwear	67. 4	126. 1	81. 0	44.8	44,0	44.0	51.1
Meat (including 1st category sub-	07.4	120. 1	81.0	79, 9	78. 9	78.9	72.6
products)	45. 7	41.1	48. 2	53, 2	46, 5	46, 5	57.2
Dairy products	29.8	29. 8	43. 4	53. 0	53, 1	52, 2	50.6
Vegetable oil		39. 8	34. 9	30, 3	27. 5	27. 5	30, 2
Flour	40.1	39. 0	60. 4	60, 7	60.8	60, 8	57. 6
Macaroni	52, 6	66, 3	57. 2	51, 9	55. 3	55, 3	61. 8
Bread and bakery products	195. 1	153. 3	151. 5		143. 5	143, 5	135. 1
Confectionery products	57. 9	52. 7	51.8	52.1	56. 5	46, 5	48. 9
Beer	26, 8	38, 0	33. 2	35. 7	37.8	37.8	41.0
Margarine	NΛ	NA	NA	17.1	NA	NA	NA

Source, by columns, follows:

Cols. 1, 2, 3, 5(b), 6: A. I. Kais, Proizvoditel nost 'truda v SSSR i glavnykh kapitalisticheskikh stran (Labor Productivity in the U.S.S.R. and in the Main Capitalist Countries), Moscow, 1964, p. 149.

Col. 4:——"A Comparison of the Level of Labor Productivity in U.S.S.R. Industry and in the Main Capitalist Countries,' Sotialisticheskiy trud (Socialist labor), No. 1, January 1959, pp. 46-47.

Col. 5a:——, "A Comparison of the Level of Labor Productivity in U.S.S.R. Industry and in the Main Capitalist Countries," in V. A. Zhamin (Ed.), Ekonomicheskoje sovernovanije sotializma s kapitalizmon (Economic Competition of Socialism With Capitalism), Moscow, 1962, pp. 200-201. For a non-Soviet analysis of these data, see Gertrude Schroeder, "Soviet Industrial Labor Productivity," in U.S. Congress, Joint Economic Committee, Dimensions of Soviet Economic Power, Washington, 1962, pp. 137-162.

Table VI-8.—Measures of collective farm employment, U.S.S.R., selected years, 1937-63 [Figures in parentheses are estimated; NA indicates data not available and no estimate made]

Number of able- bodied	equiva- lent farmers who worked (Samus)	(15)	13 (36, 206) 12 (36, 689) 13 (36, 689) 14 (36, 689) 15 (36, 689) 16 (31, 689) 17 (36, 689) 18 (31, 689) 18 (31, 689) 18 (31, 689) 18 (31, 689) 18 (31, 689) 18 (32, 689) 18 (33, 689) 18 (33, 689) 18 (33, 689) 18 (33, 689)
Total	number of man- days (mil- lions)		(14)	10 (6.072) 11 (7.1682) 11 (7.1682) 12 (6.833) 13 (6.833) 14 (6.833) 15 (6.833) 16 (6.833) 16 (6.833) 17 (6.833) 18 (6.8333) 18
Con- version factor	num- ber of labor- days per 1 man-	day	(13)	NAA NAA NAA NAA NAA NAA NAA NAA NAA NAA
	of labor- days earned (mil- lions)		(12)	2, 883 2, 8, 839 8, 8, 848 10, 864 10, 864 10, 865 10, 865
er of n-days	hieb, odied	Man- days	(11)	NNA NNA NNA NNA (224) 8 (224) 8 (224) 8 (225) 8 (214) 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Annnal sversge number of labor-days earned or man-days worked by—	Of whieb, able-bodied	La- bor- days	(10)	2218 5254 8234 NAA 82355 8235 823
al avera	sa ge	Man- days	(6)	(149) (171) (171) (178) (178) (178) (178) (168) (188) (189)
Annu labor-da	Allages	La- bor- days	· ®	194 NNN NA A S S S S S S S S S S S S S S S S
mber of the par- tialized mds)	Of which, in agri- culture	g fishing e far <i>a</i> is	8	28, 28, 100 28, 28, 100 28, 28, 28, 28, 28, 28, 28, 28, 28, 28,
Annual average number of collective farmers who par- ticipated in the socialized economy (thousands)	ctivity	Including fishing collective farms	(9)	22, 23 22, 24 27, 25 27, 25 27, 25 27, 26 28, 28, 28 28, 28, 28, 28 28, 28, 28 28, 28, 28 28, 28, 28 28, 28, 28 28, 28, 28, 28, 28 28, 28, 28, 28, 28, 28, 28, 28, 28, 28,
Annual s collective ticipated econor	Total activity	Exclud- ing fisbing collec-	tive farms (5)	18 28 28 28 28 28 28 28 28 28 28 28 28 28
1 col- 1 not			Female (4b)	ZXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
Number of able-bodied 1 collectors farmers who did not ann 1 labor-day 2 non work	1 man-day * (thousands)	Percent of total able-bodied for each sex	Male (4a)	ZXZXXIZXXZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ
er of able farmer	m-day 8	Per- cent of total	bodied (4)	110 110 110 110 110 110 110 110 110 110
Numb lectiv	E I	Total		25 25 25 25 25 25 25 25 25 25 25 25 25 2
collective partici- e social-	onsands)	Of which	bodied (2)	6 (35,900) Si 23,1923 Si 24,900) Si 25,1923 Si 26,200) Si 26,200 Si 26,200 Si 27,500 S
Number of collective farmers who partici- pated in the social-	the year (thousands)	E loto	(1)	716 673 837 837 720 827 827 827 827 827 827 827 827 827 827
	Year			1937 1940 1950 1950 1952 1953 1954 1956 1956 1960 1960 1960 1960

Footnotes on following pages.

r The definition of "able-bolled" collective farmers has varied over time. In the prepare we produce dategory included both males and females 16 years of age and over. In the postwar period, the also including the 1940 data shown here, the age limits is not the the ledge of the also including the 1940 data shown here, the age limits have been set at 16 to 58 for males and 16 to 4 for females. The data in this column of self including the 1940 data shown here, the age limits have been set at 16 to 58 for males and 16 to 4 for females. The data in this column of self includers, transport, construction, etc., and full-time able-bodied student members who made not required to earn or work the minimum number of babe-days or mandays.

A labor-day or mandays.

A labor-day formation or work in minimum number of babe-days or mandays.

Region, and local rates based on national minimum, Beginning in 1693, all collective farms disonitude reporting labor-days completely. For this reason, all data related to be abberdays from 1945 on are incomplete.

I for mandays form 1945 on are incomplete.

I for manday (checkocko-day), sometimes designated workday (rabochly day), is for a long as a labor-day. It is, however, related to be specially day of the day of the same of the formation of the same of the same of the formation of the same of the total mumber of labor-days carned or mandays worked (by persons of all ages who mandays worked by pable-bodied quivalent farmers is used in Soviet planning and static. It is to batter to bale-bodied quivalent farmers in a lebor-day.

I in mandays worked by able-bodied quivalent farmers on a lice-labor-days earned or mandays worked (by persons of all ages who mandays worked by pable-bodied quivalent farmers on a lice-labor-days earned or mandays worked (by persons of all ages who in the the total mumber of labor-days carned or mandays worked (by persons of labor-days earned or mandays worked (by persons of labor-days earned or manday

and Ellish.

by Ellishinated from total money income of cellective farm. A. Arina, proper one able-boided collective farm. A. Arina, problem of the collective farm. Annual Reports).

Sokalikitelestone storages from Materials of the Collective Farm. Annual Reports).

p. 64.

7 Percentages stown relate to total number of on-hand able-bodied collective farmers at end of year, including both those who did and those who did not participate in the socialized economy. M. I. Fedorova. Chreptenesteneous checognistic acidilece conomy.

Therefore a politike zagolovok 287skolkozyuskeennyth produktov e märnyte gody tret yet productive farmers.

p. 64.

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The Lesiyu (Strendlening the Socialized Economy of Collective Farms and Changes in the Policy of Procurement of Articultural Products During the Peaceful Years of the Third May Weltzman and Eliss, table C-2, p. 13.

Vol. 8 Weltzman and Eliss, table C-2, p. 13.

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12. Karnankhova and M. I. Kozlov (Eds.), Putt populatery in U. S. R. Agriculture), however, 1964, p. 75.

13. Karnankhova and M. I. Kozlov (Eds.), Putt populatery in U. S. R. Agriculture), however, 1964, p. 72.

14. The Country During the Period of the State of Rough and S. R. I. 1969, A. Skatistod Year of the State and Korna A. S. S. R. S. R. 1969, A. Skatistod Year of the State of Kornankhova of the U. S. S. R. I. 1969, A. Skatistod Year of the State of State of Kornankhova of the Chest of State of

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reported in TSSU pri Sovete ministrov SSSR, Narodaeque klocququico SSSR v 1956 godu, statisticale statistateshing patengodaiti (The National Leonomy of the U.S.S.R. in 1964, A Statistical by D. 143, and ——, Narodaoque khazquagtos SSSR v 1659 godu, statistical by Statistical by D. 243.

**Statistical by L. 243.

**T. Zasisvaksy, "Geonomic Conditions for the Introduction of Monetary Payments for Collective Farmer Labor," Voprosy ekonomiki (Problems of Economics), No.11, November 1959, p. 60.

**Shishkin, p. 99. Probahly excluding persons working permanently in state industry, Process, and Collective Farmer Labor," Voprosy ekonomiki (Problems of Economics), No.11, November 1959, p. 60.

**Shishkin, p. 99. Probahly excluding persons working permanently in state industry, Process, and Collective Farmer, No.6, June 1959, p. 42.

**Bruildert vanchaogr informating Truly and Palato Bullin of Scientific Information of Talianting Collective Farmer, Andrew Repeat. Representation of Labor of Scientific Information of Labor of Economics, Orderpassel in the Information of Talianting Collectis Farmer, Andrew Repeat. Represents the facility of Labor of Economics of Collective Farmer, Andrew Represents and members working in state establishments and members working the collective farm individual collective farms of Taliantic Production of 1935 as \$80,000. Individual collective farm individual collective farms in Laboral Collective Farms. Production of 1935 as \$80,000. Individual collective farms in Caliantic Productive Farms, Memory 1951, P. 727, P. 93 and 81 another estimates of Problems in Latiate production for 1935 as

2., selected years, 1940-64	ble and no estimate madel
., U.S.S.R., se	a not availa
by subsector	ls; NA indicates data not
l economy,	thousands; N
agricultura	ivalents and are in thousands;
Table VI-9.—Employment in the private	[Absolute figures are 280-day man-year equivale:

Year	Total	Collective farmers	Workers and employees	Individual peasants and other categories of population	Year	Total	Collective farmers	Workers and employees	Individual peasants and other categories of population
Onventional man-year equivalents:1 1940 1950 1955 1955 1966 1967 1967	NA NA NA 12, 136 12, 538 12, 622 12, 737	9.7.3.9.9.9.9.9.9.9.9.9.9.9.9.9.9.9.9.9.	ං (ලැයුනලලල කි.පු කිසි කි.පු කිසි කි.පු කිසි කි.පු කිසි කි.පු කිසි	NA 88 88 88 88 88 88 88	Conventional man-year equivalents 1—Continued—1968—1960—1960—1962—1962—1963—1964—1964—1964—1964—1964—1964—1964—1964	11,701 11,131 11,511 11,555 11,1555 11,122	8,259 7,218 7,076 7,015 NA NA	3, 418 3, 893 4, 424 4, 531 NA NA	24 20 12 9 8 0 8

1 Estimated on the basis of the labor-input requirements to cultivate and care for the agricultural holdings in private ownership.

2 Rough, preliminary estimate hased on the combined livestock holdings of collective farmer and worker and employee families as reported in Pranda, Jan. 30, 1965, p. 1. Many ear inputs in animal husbandry in 1964 was estimated by using the same man-day inputs as used in the calculations for other years. These estimates were then expanded to total inputs by the ratio of suimal husbandry inputs to total inputs in 1961 and 1962 (0.63). The 1961-25 ratio was used of the 1963 ratio (0.63).

3 Assumed to be zero based on continued decline since 1950 as well as on the statement that these categories of the population were practically nonexistent as of Jannary 1, 1964. See, TSO DI Sovele ministrov SSSR. SSSR vitifical Compilation), Moscow, 1964, p. 95.

| 1960 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197 | 197

CURRENT ECONOMIC INDICATORS FOR THE U.S.S.R.

Table VI-10.—Civilian employment in the United States, by major employment categories, selected years, 1940-64 In thousands; figures are independently rounded and may not add to totals; figures in parentheses are estimated]

					A	as and as many as man parameters and estimated	- C	na post out.	10000 at 0 to	Partition of			
Source of information and major employment estegory 1	1940	1950	1953	1955	1856	1967	1958	1959	1960 1	1961	1962 1	1963 1	1964 1
Total ci√lian employment, excluding private household workers ³	47,433	58, 995	63, 426	64,324	66, 101	66, 323	64.377	66, 481	67, 294	66,856	68, 022	68,850	(70, 207)
BLS data based on establishment payroll records—wags and salary employment *	32, 376	45, 222	50, 232	50,675	52, 408	52,894	51,368	153,297	54, 203	83, 980	55, 515	56, 643	58,178
Mining Contract construction Manufacturing Transportation	925 1, 294 10, 985	2,333 15,241	2, 623 17, 549	2,802 16,882	2,999 2,999 17,243	828 2,923 17,174	2,73 15,945	2, 960 16, 675	2,885 16,796	672 2,816 16,338	2, 902 16, 863	635 2,983 17,005	3, 105 17, 301
and public utilities Wholessie and retail trade. Finance, insurance, and real estate. Services and miscellaneous. Government	&&	40-100 88288 88288 88288	4,01 10,24,0 1,24,0 1,25,0 1,2	10,535 10,535 141 10,535 141 141 141 141	4,2,4,2,4,2,5,5,5,5,5,5,5,5,5,5,5,5,5,5,	10,886 10,886 2,477 6,749	3, 976 10, 750 8, 2, 519 6, 811 7, 839	11,127 12,127 12,127 115 1033	4,11,4,00,4,00,00,00,00,00,00,00,00,00,00,00	11,337 17,731 7,610	11,3 12,56 12,56 13,56 1	2,11,4% 9,8% 1,8% 1,0% 1,0% 1,0% 1,0% 1,0% 1,0% 1,0% 1,0	12, 97, 12, 184 184, 184 184, 184, 184, 184, 184, 184, 184, 184,
BIS-Census data based on household interviews—wage and salary, self-employed, and unpaid family employment.	10,080	7,911	6,985	7,254	7,166	6,848	6,449	6,433	6,338	6,125	5,813		
Agriculture Unpaid family employment (non- agricultural).	9, 540	7, 507	6, 562	6, 730	6, 585	6,222	5,844	5,836	5,723	5,463	5,190	4,946	4, 761
NID data—self-employed (nonsgricul-	4, 997	5,862	6, 209	6,395	6, 527	6,581	6, 560	6, 751	6, 753	6,742	6,694	6,674	7 (6, 674)

Footnotes on following page.

200, p. 160).

'U.S. Department of Labor, Bureau of Labor Statistics, Employment and Earnings, 'U.S. Department Issue, vol. 11, No. 7, January 1965, table B-1, p. 13.

'I.1940: Agriculture: Figure is reported in U.S. Department of Commerce, Bureau of the

1 BLS refers to the U.S. Department of Labor, Bureau of Labor Statistics; Census Crefers to the U.S. Department of Commerce, Bureau of the Census; NID refers to the of U.S. Department of Commerce, Office of Business Economics, Netional Income Division.

1 Boginning in 1980, all data include Alaska and Hawaii.

2 Boginning in 1980, all data include Alaska and Hawaii.

3 Boginning to private broadshold workers since no employment estimates for private household workers and Hawaii.

3 Broad on establishment paryoll records include Alaska and Hawaii.

4 Broad on establishment baryoll records include Alaska and Hawaii.

5 Broad on establishment baryoll records include Alaska and Hawaii.

6 Broad on establishment baryoll records include Alaska and Hawaii.

7 Broad Reports on the Statistics. As include Reports of Commerce, Bureau of Labor Reports on the Grants and now in the Special Labor Esports. As Implies series for workers in private household workers was 1984,000 (U.S. Department of Labor, "Tabor Porce and Employment for full-time and part-time employees in private household workers was 2,844,000 (U.S. Department of 1980, "Andrew Resears, Reports Department of 1980, and the States of Current Bureaus of Labor Bureaus July 1981, and falle and 1980 amployment for full-time and part-time employees in private as a study of Federal and State prisons by the Bureau of Labor Statistics for facel year of prisoners. For the United States, there are no recent employees in private of the Parkers of the States of the Original States of the Commerce, Dieso Statistics for faces year of 1940, in Folders and State prisons at the end of 1960 was 213,142 (U.S. Department of 1940, in Folders and State prisons at the end of 1960 was 213,142 (U.S. Department of Labor, Bureau of Labor Statistics And Folders and State prisons at the end of 1960 was 213,142 (U.S. Department of Tabor, Bureau of Labor Statistics And States Economics. Statistics And States Economics. Statistics And States Economics. Statistics And States Economics. Statistic

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TABLE VI-11.—U.S.S.R. and U.S. employment, by nonagricultural and agricultural sectors, selected years, 1940–64 [Absolute figures in thousands; figures in parentheses are estimated]

		U.S.S.R.				United	United States		
Year	Total			ט	Constructed series	les	House	Household interview series	series
	excluding domestics, day laborers, etc.	Nonsgricul- tural sector	Agricultural sector	Total, excluding employment in private households	Nonsgricul- tural sector	Agricultural sector	Total, excluding employment in private households	Nonagricul- tural sector	Agricultural sector
940 1850 1955 1956 1956 1957 1978 1979 1971 1971 1971 1972 1973 1973 1973 1974 1975 1975 1975 1975 1975 1975 1975 1975	\$4.5 9.9 9.9 9.9 9.9 9.9 9.9 9.9 9.9 9.9 9	සු.අ.අ.අ.අ.අ.සු.සු.පු.පු.පු.පු. සුට සුපි පිළිබඳ සු සු සු පු.පු.පු.පු.පු.පු.පු.පු.පු.පු.පු.පු.පු.ප	a a a a a a a a a a a a a a a a a a a	44 88 88 88 88 88 88 88 88 88 88 88 88 8	%4444444444444444444444444444444444444	లగ్షాథం ఉంటారాగారాలు 4.4 విడ్లొక్కు విష్ణి ప్రక్షిణి ప్రక్షి ప్రక్షిణి ప్రక్తిణి ప్రక్తి ప్రక్తిణి ప్రక్తి ప్రక్తి ప్రక్తి ప్రక్తిణి ప్రక్తి ప్రక్కి ప్రక్తి ప్రక్తి ప్రక్తి ప్రక్తి ప్రక్తి ప్రక్తి ప్రక్తి ప	477.48.88.89.48.48.89.89.89.89.89.89.89.89.89.89.89.89.89	සුපුදුදුදුදුදුදුදුදු පිස්සුදුදුදුදුදුදුදුදු පිස්සුදුදුදුදුදුදුදුදුදුදුදු	e.r.a.a.a.a.r.a.v.v.d.4 2020 2020 2020 2020 2020 2020 2020 20

 1 Beginning in 1990, all U.S. data include Alaska and Hawaii. For 1959, only the Burean of Labor Statistics component data, based on establishment payroll records, include Alaska and Hawaii. (See table VI–10.)

Source: U.S.S.R.: Table VI-2. Nonagricultural and agricultural employment as a shown in table VI-2 was adjusted in order to achieve greater comparability for U.S.R. In United States comparability for U.S.R. P. In United States comparability and equipment, and industrial and construction addrities was transferred to the nonagricultural sector. Detailed numerical adjustments are shown in table VI-12. United States: No adjustments were made to transfer from agricultural perplyment such farm activities as the repair of machinery and equipment, and logging operations of farmers. A Soviet energate of machinery and equipment, and logging U.S.R. employment statistics omit women who cook for hired laborers on farms, whereas in the U.S.R. employment of cooks in field camps is notified. (Ys. 10ft, "The Level of Labor Productivity in the U.S.R. and the U.S.A." Functory should beyond the U.S.A." and the U.S.A." Plancook short of the U.S.A. in Constructed series: Table VI-10. Household Expirate paragraphic plantation of employment to private households from total employment and the nonagricultural sector is based on data given

in the annual reports for this series. The 1940 estimate for employment in private house-holds, 2200,000, is based on national facome data. (U.S. Department of Commerce, Office of Business Economics, National facome, 1954, Edition, A Supplement of Commerce, of Current Business, 1954, table 25, pp. 196 and 1971, 1946; Bureau of the Census, Statist, and Astard of the United States, 1964, table 25, pp. 196, table 25, pp. 25, 1954, Annual Report on the Labor Force, 1956, Series P-50, No. 31, March 1951, table 9, p. 23, 1953, Annual Report on the Labor Force, 1955, Series P-50, No. 54, April 1955, table C-9, 1955, Annual Report on the Labor Force, 1955, Series P-50, No. 57, March 1956, table 12, p. 28, 1957, Annual Report on the Labor Force, 1955, Series P-50, No. 57, March 1956, table 12, p. 28, 1957, Annual Report on the Labor Force, 1955, Series P-50, No. 57, March 1956, table 12, p. 28, 1957, Annual Report on the Labor Force, 1956, Series P-50, No. 72, March 1957, table 12, p. 28, 1957, Annual Report on the Labor Force and Employment in 1960, "by Robort L. Sein and Efferman Travits, Special Labor Force and Employment in 1961, "Decreamed Employment in 1962," by Special Labor Force and Employment in 1963, "by Series Porce and Employment in 1963, "by Series Bureau of Labor Force and Employment in 1963," by Series Bureau of Labor Force and Employment in 1963, "by Series Bureau of Labor Force and Employment in 1963," by Series Bureau of Labor Force and Employment and Faries Porce and Employment and Faries Porce and Employment and Faries Series Porce and Employment In 1963, by Series Bureau of Labor Force Report, No. 43, table C-4, p. 4–18. 1964 Series Porce and Employment and Faries Porce and Employment and Faries Porce and Employment Porce Report, No. 43, table C-4, p. 4–18. 1967 Series Porce and Employment and Faries Porce and Employment Porce and Employment and Faries Porce and Employment Porce Porce Report, No. 43, table C-4, p. 4–18. 1967 Series Porce and Employment Porce and Employment Porce Porce Porce Porce P

Table VI-12.—Adjustment of U.S.S.R. civilian employment to correspond to U.S. nonagricultural and agricultural sectors, selected years 1940–63 [Figures are annual averages and are in thousands; leaders indicate not applicable; NA indicates data not available]

Employment category	1940	1950	1953	1955	1956	1967	1958	1959	1960	1961	1962	1963
Total civilian employment	79,019	79, 583	81, 942	87, 476	90,313	91, 512	98, 790	94, 352	95,692	98, 274	100,001	101,048
Nonagricultural branches	35, 129	41, 100	45, 334	48,250	49, 929	51,757	53,845	56, 133	57,985	60,702	62, 728	64, 549
Workers and employees (excluding agricultural establishments and forestry)	28, 216 2, 200	35, 014 1, 500	39,218 1,600	41,834	4,-	45,978	48, 043	50, 319	54, 550	57, 645	59,695	61, 788
Independent artisans.	3, 100	3,000	214 2,697	2,716		2,768	2,960	3,019	174 2,064	1,902	1,873	1,762
Agricultural Nonegricultural 1	2,700	2,600	2,400	2,300 416	2,400	2,300	2,700	2,700	1,600	1,600	1,700	1,600
State agricultural establishments.	730	878	1, 189	1,347	1, 258	1,289	1,019	869	848	සු	909	909
State farms and subsidiary state agricultural establishments. Machine tractor stations (repair-technical	200	200	300	200	200	300	300	007	200	699	88	609
	530	678	888	1, 147	1,058	686	719	469	348	63		
Forestry	279	444	416	389	380	377	367	352	359	378	389	300
Agricultural branches	43,890	38, 493	36,608	39,226	40,384	39, 755	39, 945	38,219	37,707	37,572	37, 323	36, 499
Workers and employees	4,006	5, 102	5, 207	5,895	6,024	7,481	8,330	8,387	10,168	11,659	12, 150	NA
State farms and subsidiary state agricultural establishments.	1, 560	2, 225	2,252	2,632	2, 725	3,661	4,314	4, 557	5,824	6,766	7, 130	7,274
fifted. Private subsidiary economy.	2,039	334 2, 543	356 2, 599	3,003	3,009	3,542	3,654	3,418	3,898	469	489	AN NA
Collective farms	33,934	32, 239	31,264	33, 147	34, 213	32, 162	31, 515	29, 739	27, 431	25,850	25, 158	NA
Agricultural Nonagricultural 1. Private subsidiary economy	24, 700 100 9, 134	24, 200 100 7, 939	23, 100 74 8, 090	23, 900 104 9, 143	24, 600 108 9, 505	23,000 117 9,045	22, 400 85 9, 050	21, 400 80 8, 259	20, 100 113 7, 218	18,700 7,075	18, 100	17,600 AN
Individual peasants. Correction for rounding.	5,950	1, 152	179	186	167 20	132	125	178	+33	+23	31	-2

180 percent of all employment in nongericultural collective farms was allocated to the nongericultural branches and 20 percent to agricultural branches.

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CHAPTER VII

FEMALE EMPLOYMENT

INTRODUCTION

One of the most distinctive features of the Soviet economy is the prominent role of women. Women make up not only a majority of the unskilled fieldworkers on collective and state farms, where they perform much the same work as their grandmothers a century ago, but also a majority of the semiprofessionals and professionals who pursue careers in the offices, hospitals, schools, and research laboratories of the country. Women are an integral and essential part of all sectors of the Soviet labor force and can be expected to continue to be major contributors to Soviet economic growth and development in future decades. A number of factors account for this phenomenon.

CHANGES IN THE SEX RATIO OF THE SOVIET POPULATION

Demographic factors have played, and will continue to play, an important part in determining the role of women in the Soviet economy. War, revolution, and political repression over the past five decades drastically altered the sex ratio in the Soviet Union in favor of women. (See table VII-1). In 1897, when there were 99 males for every 100 females, the ratio was normal. But, by 1926, as a result of World War I and the civil war, there were 5 million fewer males than females, and the ratio was 94. By the census of 1939, the shortage of males had increased to 7 million, and the sex ratio had declined to 92, reflecting the greater adverse impact of collectivization and the political purges on the male population. The most drastic change came with the Second World War which increased the male deficit to an estimated 26 million and reduced the sex ratio to only 74. Improvement in the sex ratio since the end of the war has been gradual, and the 1939 level of 92 is not likely to be regained until 1980.

These imbalances in the sex ratio of the population as a whole are sharply reflected in the 16- to 59-year or "working age" group. (See table VII-2.) In 1946, for example, the female population in the 16 to 59 age group exceeded the male by 20 million or 50 percent. At the time of the 1959 census the excess was still more than 15 million. As a result, demographic pressures compelling the extensive utilization of women in the labor force have continued to be insistent. Thus, the participation of women has remained high, although normally, as a country industrializes and becomes more urban, participation rates would decline.

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HIGH RATES OF FEMALE PARTICIPATION IN THE LABOR FORCE

The relationship between population and employment by 5-year age groups is shown in figure VII-1, which is based upon 1959 census tables. What is most striking is the continuing high rate of participation of Soviet women in the major child-bearing and child-rearing years of 20 to 39. Altogether, 78.8 percent of the able-bodied women (aged 16 to 54) were in the labor force. Even among the overaged women (over 55), 45.8 percent were in the labor force. (See table VII-3.) This high rate for older women is a result of many shifting to the private subsidiary sector of agriculture after withdrawing

from employment in the socialized sector of the economy.

What accounts for these high rates of participation? We have already discussed the sex imbalance. Unquestionably economic pressures compelling women to work to make ends meet also play a major role. Their effect is intensified by the shortage of males which has left a large number of women unmarried or widowed, and these women cannot avoid working to support themselves and their dependents. Furthermore, the party and Government have succeeded in altering social custom and public attitudes toward the employment of women. At the present time, fcw jobs are inaccessible to women, and a woman is likely to feel defensive if she does not work. Also, the Government has provided maternity leaves and benefits and child-care facilities such as nurseries, kindergartens, and summer camps, all of which make it easier for a woman to combine work with family responsibilities. Approximately 12 percent of the children of nursery age and 20 percent of the children of kindergarten age can be accommodated in permanent child-care facilities at the present time. Most of the permanent facilities are to be found in urban centers while seasonal facilities are largely in rural areas. In a major city, such as Moscow, more than two fifths of the children of nursery and kindergarten age are cared for in permanent child-care facilities, but in most communities there are long lists of children waiting for admittance. For many Russians, a grandmother continues to provide the only available child care.

FAMILY VERSUS WORK

Although child-care facilities, or grandmothers, lighten the burden of housework for some mothers, the Government has become increasingly concerned about the heavy burden of housework borne by working wives and mothers. The small supply, not only of household aids such as vacuum cleaners and washing machines, which are taken for granted here in the United States, but also of more fundamental services such as hot or even running water, make cleaning, laundering, food preparation, and dishwashing exceedingly onerous and time consuming tasks. Also, shopping under difficult Sovict conditions and in the absence of refrigeration in most households is extremely time consuming. Heavy household burdens, combined with the demands of a career, cause many professional women to have only one or, at most, two children. There seems little doubt that one of the unintended effects of the high proportion of married women working in the Soviet Union is a reduced birth rate.¹ Furthermore, the

¹ Data recontly published in *Vestnik statistiki*, No. 1, 1965, p. 96, shows that among the worker and employee socioeconomic group, the birth rate of women working in the 20- to 39-year age group was about a third less than that of women who did not work.

distraction of caring for a husband and children is undoubtedly one of the major factors explaining the lower average level of professional achievement of Soviet women compared to Soviet men.

Women's Share in the Labor Force

The contribution of women to the Soviet labor force is so extensive because of the combined effect of women substantially outnumbering men in the older age groups of the population and an unusually high rate of participation of women in the labor force in all age groups, including the older. (See fig. VII-2.) The contribution of women is particularly large in the age groups over 35 where, in most 5-year age groups, women account for 55 percent or more of the labor force. These are, of course, the age groups upon which the heaviest responsibilities of economic leadership would normally fall.

An overall view of the share of women in different sectors of the Soviet economy is provided by the 1959 census. Among those in the labor force as a whole (including the armed forces and the private subsidiary economy), women made up 51.9 percent of the total, 50.2 percent of the able-bodied age group, and 67.5 percent of the overaged group. (See table VII-3.) In the civilian labor force the percentages were 53.7, 52.1, and 67.5. Women made up 46.7 percent of the workers and employees and 56.1 percent of the collective farmers, while in private subsidiary agriculture more than 90 percent of the

Although the number of women collective farmers has declined several million since the 1930's, the 17.4 million women collective farmers remained the largest single group of women employed in the Soviet economy. (See table VII-4.) The bulk of these women were employed in unskilled, nonspecialized agricultural work where they made up two-thirds of the labor force. The number of women workers and employees increased eleven fold from 3.1 to 34.6 million during the 35-year period since 1929 (see table VII-5), and the proportion of women increased from 27 to 49 percent. The largest group among these is women industrial workers, who numbered 11.3 million in 1963, a tenfold increase since 1929. A more detailed breakdown for women employed in all industry is given in table VII-6. The highest percentages of women are to be found in the food, textile, and clothing industries, traditional strongholds of women. Even in the ferrous metallurgical, machine-building, and metalworking industries, however, 30 to 40 percent of the workers and employees are women.

RISING QUALITY OF THE FEMALE LABOR FORCE

Although the bulk of Russian women are employed in unskilled or semiskilled jobs, since the Revolution there has been a substantial improvement in the quality of the female labor force. In the 1920's the educational level of working women of all types lagged substantially behind that of men. By 1959 the census showed that illiteracy had been virtually eliminated in the working ages and that the gap between the educational attainment of men and women had been substantially closed. (See table VII-7.) However, female collective farmers continued to lag far behind the males in educational

attainment. The gap also remains substantial between male and female workers with a secondary specialized or higher education. In addition, among those with less than 4 years of schooling, a group still large in Russia, there are almost three times as many women as men.

Of particular interest in the light of its importance to Soviet science and technology is the proportion of "candidate" and "doctoral" degrees which have been earned by women. In 1961 women earned 29 percent of the former and 11 percent of the latter. (See table VII-8.) Over the past decade the increase in the percentage of doctoral degrees is particularly impressive.

TRAINING OF WOMEN PROFESSIONALS

The improvement in the educational level of women has been achieved through the expansion in the enrollment of women at all levels of education. In secondary specialized educational institutions, enrollment increased more than sixfold, from 72,000 in 1927 to 448,000 in 1940. (See table VII-9.) Since 1940 the enrollment has more than doubled, reaching 985,000 in 1963. The growth in enrollment in higher education has been equally impressive, rising almost sevenfold from 48,000 in 1927 to 330,000 in 1940. (See table VII-10.) Between 1940 and 1963, enrollment increased almost two and a half times, reaching 784,000 in 1963. The proportion of women in secondary educational institutions rose from 37.6 percent in 1927 to 54.6 percent in 1940. However, after reaching a wartime peak of almost 70 percent in 1945, the percentage of women has declined to a level between 46 and 49 percent in recent years. In higher education the proportion of women increased from 28.5 percent in 1927 to 58 percent in 1940. From a wartime peak of 77 percent in 1945 the proportion of women enrolled has declined to a level between 42 and 43 percent in recent years. The present level of female enrollment is, therefore, some 10 percentage points below the level which would be expected from the proportion of males and females in the college-age population. A careful reading of the admissions regulations of recent years shows that they favor applicants with military service or work experience and, as a result, intentionally or unintentionally, tend to discriminate against women.

From the start of the industrialization drive in the late 1920's, the proportion of women enrolled in secondary specialized and higher educational institutions has increased substantially. The highest proportions by far are in the fields of health and education, fields which have been popular with women for years. The biggest increases in the proportion enrolled were made in the industrial (engineering) field where women now make up approximately one-third of the enrollment in secondary specialized institutions, and in agricultural sciences where they make up almost two-thirds of the enrollment. In higher educational institutions the rate of increase was rapid in the latter two fields and also in the socioeconomic field. Comprehensive data have not been published on the proportion of women in higher education enrolled in the various science fields, but such information as is available suggests that, among the sciences, women make up substantially more than half of the students enrolled in biology and chemistry, the most popular science fields for women.

At the graduate level, the proportion of women students is smaller, and they now make up about one-fourth of the enrollment. (See table VII-11.) A sampling of advanced degrees awarded in the 1962-64 period shows a heavy concentration in the fields of science and technology. Approximately 77 percent of both candidate and doctoral degrees were awarded in these two areas. The sample (over 9,000 candidate degrees) indicated that women received 28 percent of the candidate degrees granted in all fields. The highest percentages among the sciences were in the fields of biology (53 percent), medicine (47 percent), and chemistry (38 percent). The lowest percentages were in physics and mathematics (17 percent) and the technical sciences (12 percent). Of the doctoral degrees sampled (almost 900) during the same period, women received 21 percent. The distribution among science fields followed roughly the same pattern as that for candidate degrees.

A Majority of Professionals Are Women

Perhaps the most distinctive and certainly the most appealing feature of the utilization of women in the Soviet labor force is their heavy representation in white-collar occupations and in the professions. Today women comprise more than half the labor force employed in what the Soviets classify as "mental" work. About half of the 11 million women in this category have a secondary specialized or higher education. The proportion of women among specialists with a secondary specialized education is large, amounting to 62 percent in 1963. (See table VII-12.) Among professionals with a higher education, the proportion is 52 percent. (See table VII-13.) Thus, women form a clear majority of the professional and semi-professional labor force in the Soviet Union. Among specialists with a secondary specialized education, women dominate the fields of medicine, schoolteaching and the category "statisticians, planners, and commodity specialists." Among women professionals with a higher education, women form a majority of physicians, teachers at higher levels, and the category "economists, economist-statisticians, and commodity specialists." The smallest proportion of women is in engineering, but even here women make up 31 percent of the total.

IMPORTANCE OF WOMEN SCIENTIFIC WORKERS

The number of women scientific workers of all types has increased rapidly and has grown fourfold since 1947 to a total of 219,000 in 1964. (See table VII-14.) Those of a sufficient rank to possess academic titles have increased in number at a slower pace and now comprise a fifth of the total (see table VII-15.) Women are well represented in higher educational institutions (see table VII-16) and in scientific research institutions (see table VII-17.) In the former women made up approximately a third of the professional staffs in 1960 while in the latter almost two-fifths. The proportion of women professionals employed in higher educational institutions was nearly the same in 1947, the only time that data showing the proportion of women in the various academic fields were published. The pattern shown by these figures is probably much the same today. In 1947 women made up two-thirds of the teachers of literature; almost half

those in the fields of medicine, biology, and chemistry, and twofifths of those in education. Again, the strikingly high proportion of women in medicine and certain science fields is evident. The proportions in history, geography, geology, and agriculture were between 20 and 30 percent. In the combined field of physics and mathematics approximately a fifth of the staff were women. The proportions in economics and law were still lower. The smallest proportion was in the technical sciences where women made up only a tenth of the staff.

ADVANCEMENT OF WOMEN

Although women are well represented in all the major professions in the Soviet Union, including the fields of science and technology, the prospects for a woman's professional advancement are less favorable than those of a man. The smaller proportion of women in the higher professional ranks is clearly shown in tables VII-15, 16, and 17. For example, table VII-15 shows the diminishing proportion of women as one ascends the ranks in higher educational institutions. Women make up 41 percent of assistant professors and instructors of lower rank, 24 percent of associate professors, and 11 percent of full professors. In academic administration, women make up 12 percent of the department heads, 9 percent of the deans, and 5 percent of the directors of higher educational institutions and their deputies. Even in fields which women dominate, such as elementary and secondary school teaching, the proportion of women declines as the level of grade and administrative responsibility increases. (See table VII-18.) It is clear that in all fields women are not so well represented in the more responsible positions as they should be. Far too many become lodged at intermediate levels of achievement.

The reasons why more women are not found in the higher ranks are complex. Unquestionably women are more distracted from their professional activities than men by family responsibilities. Despite smaller families and increased child-care facilities, the conflict between career and family is a real problem for many professional women. Furthermore, the competition for higher level positions is intense, and men are better able and seem more inclined to persist in the struggle for advancement. Discrimination against women, perforce covert,

does not appear to be so important a factor.

For complex reasons "set forth" at length in the monograph from which this discussion is drawn, the Soviets have not utilized their women as effectively as they might in the more responsible positions. Nevertheless, it is evident from this brief survey that the potential of the younger generation of women has been realized to a remarkable degree in the Soviet Union. In the fields of science and technology in particular, talents which are wasted in the United States and other Western nations, are developed and put to use, contributing not only to women's own development but to the development of the economy as well.

The tables which follow have been selected from a monograph, Women in the Soviet Economy; Their Role in Economic, Scientific, and Technical Development, prepared for the Office of Economic and Manpower Studies of the National Science Foundation. Much fuller treatment of all aspects of the role of women in the Soviet economy, particularly in science and technology, may be found in this monograph, which will soon be published by the National Science Foundation as a book.

Table VII-1.—Males per 100 females in the population of Russia and the Soviet Union, selected years, 1897-1980

Age	1897	1926	1939	1946	1950	19 59	1970	1980
All ages	98. 9	93, 5	91. 9	74, 3	76, 2	81, 9	87. 3	91, 7
Under 16 years	100. 1	101, 2	101. 3	99, 5	100, 8	103, 6	105. 1	105, 6
16 to 34 years	90. 9	89, 8	90. 1	72, 0	79, 5	93, 8	101. 0	103, 7
35 to 59 years	100. 7	90, 4	80. 1	59, 1	59, 1	60, 6	75. 1	87, 7
60 years and over	95. 5	78, 8	66. 1	51, 9	49, 7	50, 8	40. 0	49, 5

Soure: 1897—Tsentral'nyl statisticheskii komitot, Obshchii svod po Imperii rezul'idov razrabotki dannykh pervoi vseobshchei perepisi naseleniia, vel. 1, St. Petersburg, 1905, pp. 56-8: 1926—Tsentral'noc Statisticheskoe upravlenic, Vsesoiuznaia peripisi naseleniia 1936 goda, vol. XVII, Moseow, 1929, pp. 46-8: 1939—Michael K. Roof, unpublished working paper, Library of Congress, 1964; 1946—Estimate obtained by "reviving" the 1959 population to 1946; 1950—James W. Brackett, "Demographic trends and population pelley in the Soviet Union." Dimensions of Soviet Economic Power, Joint Economic Committee of the U.S. Congress, Washington, 1962, pp. 564-5; 1959—Based on distribution appearing in Tsentral'noc Statisticheskoe upravlenie pri Gvotte ministrov SSSR, Itogi vsesoiuznoi perepisi naselenia 1969 goda: SSSR, Moseow, 1961, p. 52 and other official sources; 1970 and 1980—U.S. Department of Commerce, Bureau of the Census, Foreign Demographic Analysis Division, Estimates and Projections of the Population of the U.S.S.R. and of the Communist Countries of Eastern Europe, by Age and Sex, Washington, 1904.

Table VII-2.—Population of "working age" in Russia and the Soviet Union, selected years, 1897-1980

[In thousands]

Year	Popula	tion 16 to 59 3	years	Excess of	Percentage
.b. Ocak	Both sexes	Male	Female	female pepulation	female
1897	66, 056 78, 813 94, 205 100, 928 103, 710 125, 615 139, 496 164, 023	32, 772 37, 334 44, 482 40, 102 43, 820 55, 089 64, 979 80, 104	33, 823 41, 479 49, 783 60, 826 62, 890 70, 526 74, 517 83, 919	1, 051 4, 145 5, 301 20, 724 19, 070 15, 437 9, 538 3, 815	51. 2 52. 6 52. 8 60. 3 58. 9 56. 1 53. 4 51. 2

Source: See sources for Table VII-1 above.

Table VII-3.—Percentage of females in the population of the U.S.S.R. by socioeconomic category and age group, Jan. 15, 1959

[Leaders indicate negligible or nonexistent]

				r-aged		oodled ge	Over	-aged
	Per- centage of women	Per- centage distri- bution	Per- centage of women	distri-	Per- centage of women	distri-	Per- centage of women	Per- centage distri- bution
Total population Total labor force Armed forces	51.9	100.0 49.3	49. 1 48. 0	100.0	54.0 50.2	100, 0 75, 8	74.0 67.5	100, 0 38, 3
Civilian labor force Socialized sector. Workers and employees. Nonagricultural branches. Agricultural branches. Collective farmers. Nonagricultural branches. Agricultural branches. Agricultural branches. Private independent sector. Independent artisans. Individual peasants. Private agricultural subsidiary sector. Members of families of workers and employees. Members of families of collective farmers. Population outside the labor force. Dependents. Able-bodied students. Stipendiaries. Pensioners.	53, 7 40, 9 46, 7 47, 3 41, 0 56, 1 21, 5 66, 2 90, 7 84, 4 95, 4 58, 3 41, 4 45, 1	49. 3 41. 4 25. 6 23. 2 2. 4 15. 7 7. 8 3. 1 4. 7 50. 7 43. 9	48. 0 47. 9 45. 3 50. 8 42. 2 43. 4 71. 4 71. 4 49. 1 49. 1	.8 .8 .2 .1 .1 .6 .6	52.1 49.7 46.7 47.4 40.9 56.2 21.5 56.9 32.4 23.1 62.0 95.8 93.7 100.0 71.1 89.2 45.1 28.4	75.8 63.3 43.9 39.9 24.4 2 24.2 7.4 4.9 2.6 24.2 17.7 3.4 1.2	67, 5 52, 6 45, 5 45, 8 43, 6 56, 5 56, 5 58, 9 33, 3 68, 8 85, 5 45, 8 93, 5 78, 7 93, 1	38.8 16.2 5.0 4.3 .7 11.3 .27.9 2.0 19.9 61.7 30.9

Source: Based on table V-A-1, Annual Reconomic Indicators for the U.S.S.R., Joint Economic Committee of the U.S. Congress, Washington, 1964, pp. 44-45. Underaged comprise both males and females 12 to 15 years of age. The able-bodied group includes males 16 to 52 years of age and females 16 to 54 years of age. The overaged group relates to males 60 years of age and over and females 55 years of age and over.

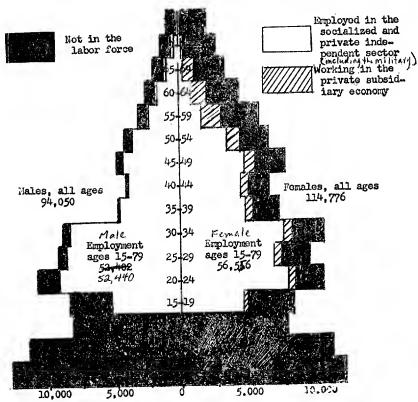


FIGURE VII-1.—U.S.S.R. population and employment pyramids in 1959
[In thousands by 5-year age groups]

	Age groups							
	0 to 4	5 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 to 39
Male population	12, 147	11, 191	7, 941	8, 125 5, 116	10,056 8,877	8, 917 8, 386	8, 611 8, 138	4, 528 4, 375 97
	11,906	10,848	7, 649	8, 093 5, 055 63	10, 287 8, 351 81	94 9,273 7,381 80	10, 388 8, 138 78	7, 062 5, 452 77
	40 to 44	45 to 49	50 to 54	55 to 59	60 to 64	65 to 69	70 to 74	75 to 79
Male population	3, 998 3, 764 94 6, 410 4, 881	4,708 4,342 92 7,558 5,665 75	4,010 3,594 90 6,437 4,445 69	2,905 2,395 82 5,793 3,161 55	2,348 1,845 79 4,349 2,069 48	1,751 942 54 3,289 1,172 35	1, 226 454 37 2, 631 552 21	797 209 26 1,973 234 12

Source: Population pyramid: The five-year age groups from 20 to 69 years of age come directly from \$\$Itog4 * * * \$1956 goda: S.S.S.R., op. ctt., p. 70. The division of each of the 0-to 9-, 10-to 19-, and 70-to 79-year age groups into two 5-year age groups was done on the basis of proportions calculated from Brackett, op. ctt., pp. 555-556. Employment pyramid: This was estimated from census data, \$\$Itog4 * * \$1959 * S.S.S.R., op. ctt., pp. 132-145 and 161-170, giving the age distribution by sex of the population employed in the op. ctt., pp. 132-145 and 161-170, giving the age distribution by sex of the population employed in the socialized and private independent sector, including those in the military, and pp. 96-99, giving data on employment in the private subsidiary sector by sex and broad age groups. A detailed explanation of how the estimates were made may be found in Norton T. Dodge, *Women in the Soviet Economy: Their Role in Economic, Scientific and Technical Development, app. III, an unpublished monograph prepared for the National Science Foundation.



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Table VII-4.—Distribution and percentage of women collective farmers employed primarily in physical labor in agriculture, by occupation, Jan. 15, 1959

Occupation	Num	ber	Percentage
Congressor	Total	Female	female
Total employed in physical labor	28, 728, 425	17, 420, 143	60. 1
Administrative and supervisory personnel: Heads of livestock and poultry sub-farms Brigadiers of field brigades Brigadiers of fivestock brigades Other brigadiers Skilled workers and junior supervisory personnel: Bookkeepors Tractor and combine drivers	31, 697	20, 227 19, 295 4, 043 10, 256 4, 363 9, 571	15. 0 8. 3 12. 8 5. 2 18. 6 . 8
Implement handlers and workers on agricultural ma- chinery.————————————————————————————————————	124, 751 149, 666	1,774 130,664	1.4 87.3
Workers in plant breeding and feed production Cattle farm workers Milking personnel Stablomen and grooms Swinoherds Herdsmen, drovers, and shephords Other livestock workers Poultry workers Beokeepers Orehard and vineyard workers Vegetablo and melon growers Irrigators Nonspecialized agricultural workers	550, 657 113, 874 116, 557 62, 603 50, 854 56, 539 7, 975	274, 167 423, 786 1, 136, 923 50, 708 381, 145 96, 356 23, 920 108, 886 9, 497 20, 887 45, 546 14, 523, 178	80.6 10.8

Source: Itogi * * * 1959 goda; SSSR, op. cit., pp. 159-160.

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LABLE VIL—5.——Number and percentage of women workers and employees, by branch of the economy, selected years, 1929–62 [Absolute numbers are in thousands: leaders indicate data not available and no estimate made; figures in parentheses are estimated]	tage of ds: leade	<i>tromen</i> rs Indica	worken te data n	rs and ot svalla	e <i>mploy</i> ble and r	ees, by	branch ste made:	of the	econom in parent	<i>y, selet</i> heses are	zed yea estimate	<i>trs, 19</i> £ ed]	<i>39-6</i>	
	19	192912	19	1930 \$	19.	1931 \$	19	1932 8	198	1933 12	19,	1934 3	193	1935 \$
	Num- ber	Per- cent	Num- ber	Per- cent	Num- ber	Per- cent	Number	Per- cent	Num- per	Per-	Num-	Per- cent	Num- ber	Per-
Total national economy	3, 118	27.0	3,877	26.7	4, 197	26.9	6,007	27.4	6,720	30.0	7,204	31.7	7,964	33.4
Industry. Construction. Stefe farms and subsidiary agricultural enterprises. MTS and RTS.	1,109	28.0 7.0 28.0	1,236 158 425	29.0 9.6 27.4	1,440 189 421	29.3 10.1 23.1	2,043 380 394	32.2 12.8 21.3	2,410	31.0 16.0 26.0	2,274 454 605	35.6 18.7 25.4	2,624 450 672	38.3 19.7 27.0
	25 25 28 25 25 28	411.0 9.0 28.0	146	9.7	173	10.2	243	11.6	374 276 98	% 14.7.8 0.00 0.00	358	15.1	427	17.8
stuply bridge. Divide Driving the content of the c	133	19.0	4 179	% % 0.03	405	34 6	ê7 <u>ē</u>	ō. 38.	884	41.0	392	40.0	820 478	8,8 0,0
Public Health. Bulucakou, science, and scientific services. Education	283 440	246.0 24.0 24.0	4 320 4 820 6 820	455.5 467.1 452.3	4 358 4 514	4 69. 0 4 50. 4	4 426 4 692	4 70.2 4 53.6	4 498 866	4 71. 0 56. 0	4 506 4 859	472.2 456.6	822	44 24 24 24 36
Science and scientific services. Government and social institutions; credit and insurance Government and social	255	19.0	+382	4 22.6	4 373	424.1	4 475	4.25.8	470	29.0	499	429.4	\$ 522	431.1
Other branches.	(284)	(31.0)	(109)	(30.0)	(324)	(31.0)	(679)	(21.0)	(285)	(14.0)	(883)	(27.0)	(296)	(27.0)
	1936	8 8	1937	7.3	194	1940 1	194	1945 1	1950	10	195	1952 #	1955	9 9
	Num- ber	Per- cent	Num- ber	Per- cent	Num- ber	Per- cent	Num- ber	Per- cent	Num-	Per-	Num- ber	Per- cent	Num-	Per- ent
Total national economy.	8, 492	34.0	9,357	35.4	11, 978	38.0	15,076	55.0	18,397	47.0	120,300	48.0	121, 674	45.0
Industry Contractional industry	2,908	38.8	3,298	39.8	4, 496	41.0	4,840	51.0	6, 421	45.0	(7, 156)	46.0	(7, 815)	45.0
State farms and subsidiary agricultural enterprises MTS and RTS	628	26.4	25.58 24.53	85.6 7.6	523	844	1,310	82.0 61.0	1, 193	8.4.4 0.00	(1, 089)	34.0 43.0	(1,303)	83.0 6.0 0.0
111	446	17.6	477	18.3	858	42 42 80 80 80 80 80 80 80 80 80 80 80 80 80	1,1, 25,25,25,25,25,25,25,25,25,25,25,25,25,2	8,45 900	1,530	4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	(1, 378)	888	(1,864)	
trade, public dining, procurement, material-technical supply	187	(37.0)	876	(35.0)	1,463	44.0	1,686	69.0	1,922	58.0	(2,097)	60.0	(2, 409)	(64.0)

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Trade. Public dining. Public health. Education, science and scientific services.	530 251 643 1,076	31.8 63.2 72.0 55.9	640 236 1,252	34.0 62.2 72.4 56.6	(965) (525) 1, 142 1, 748	\$ 38.0 \$ 67.0 76.0 58.0	1,934	73.0	1,729 2,579	\$ 52.0 \$ 80.0 84.0 64.0	(1, 892) (2, 809) (2, 453)	8 9 8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	(1,699) (710) (2,233) (3,116)	83.0 85.0 85.0
Science and scientific services. Government and social institutions, credit and insurance institutions.	740	8	087	2	728	35.0	1,079	59.0	946	45.0	(326) (959) (979)	43.0 64.0 0.0	(797)	49.0
	(1,068)	(8) (0)	(0,116)	(42,0)	(460)	(18.0)	(841)	(44.0)	(1, 125)	(35.0)	(1,643)	69.0 (41.0)	(872)	(24.0)
	1956	9.6	1958	3 is	1960 \$	11	1961	11	1962		1963	3.7	1964 9	0 1
	Num- ber	Per- cent	Num- ber	Per- cent	Num- ber	Per-	Nam-	Per- cent	Num- ber	Per- cent	Num- ber	Per- cent	Num- ber	Per- cent
Total national economy Industry contained to the state of	122, 691 (8, 306)	45.0 45.0	25, 610 8, 814	47.0 45.0	29, 300 10, 140	47.0 45.0	31, 609 10, 681	48.0 45.0	(33, 037) (10, 934)	48.0 46.0	(34, 557)	49.0 45.0	(35, 868)	49.0 45.0
Construction State farms and subsidiary agricultural enterprises. Mrs. on A Pres.	(1,064) (1,268)	31.0 7.00 7.00	1,335	30.0 41.0	1,500 2,768	25.0 25.0 25.0	3,170	29.0 43.0	(1, 494)	8;8; 0.0	(1, 519)	28.0 0.0		29.0 43.0
6	(1, 940)	33.0	1, 285 420 420	8.0 8.0 0.0 0.0	1,580 1,580 475	8 900	1,137 1,630 507	(%) (%) (%) (%) (%) (%) (%) (%) (%) (%)	(2, 301) (1, 669) (532)	(81.0) 64.0 64.0	(2, 271) (1, 710) (561)	88.82 000		25.0 0.45
Trade, public dining, procurement, material-fectualisal supply. Trade Trade Trade Trade	(2, 515) (1, 775)	\$38 000	2,790 (1,984)	67.0	3, 100	69.0	3, 532	70.0	(3, 730)	71.0	(4, 006)	73.0		73.0
Public health Education, science and scientific services.	(2,363)	88.0	4.6. 603 604 604	**************************************	2,952 4,082	85.0 62.0	3,151	88.0 62.0	6,4,8 88,8 88,8	6.6	6.6; 81.83	88		98
Education. Science and scientific services. Schence and scientific services.	(3, 183)	67.0	(588) (588)	8 8 9 9			(865) (865)	43.0 0.0	(947)	4,0	4.t. 88.	0.4 0.0		4.0
	(804)	50.0	38g	25.09.00 0.00	811	54.0	2 886	51.0 0.13	88.8 8.8 8.8 8.8 8.8	888 900	888 888 888 888 888	88.6 000		53.0
Other branches 11.	(1,046)	(27.0)	(1,691)	(1)	(1,858)	(37.0)	(2, 102)	(4) (5)	(2,100)	(40.0)	(2,694)	(30.0)		
							0000	20707			1	98		

1 Zhenshchiny i deti v SSSR, Moscow, 1963, pp. 100, 102-104. Annual average employment estimates.
2 Zhenshchiny i deti v SSSR, Moscow, 1961, pp. 122-124. Annual average employment estimates.
B. Grilkova, "Zhenskii trud v SSSR," in Planove Khoziasto, No. 10, October 1939, p. 113. Data for 1939 are annual averages, for 1934-37, as of Jan. 1. Data are not strictly comparable with those for 1929, 1833, and subsequent years due of branch elastification changes. For example, before Jan. 1, 1935, women employed in the Ministry of Railways repair plants were included in transport, afterward in industry. Slight changes in the construction branch classification also took place.
4 TSUNKhu Gosplana SSSR, Trud v SSSR, statisticheshii spravochnik, Moscow, 1936, pp. 25 and 360.

s Narodnoe khoziaisto SSSR v 1956 godu, Moscow, 1957, pp. 204-208.

s Narodnoe khoziaisto SSSR v 1963 godu, Moscow, 1967, pp. 459 and 453-454. Annual savange employment estimates. The corrected total is from Vestnik statistit, No. 2, 1964, p. 41.

I Narodnoe khoziaisto SSSR v 1983 godu, Moscow, 1965, pp. 475-476 and 1480.

S Therakelina v SSSR, Moscow, 1960, pp. 33-35.

Vestnik statistit, No. 2, 1965, p. 92.

In Narodnoe khoziaisto SSSR v 1969 godu, Moscow, 1960, p. 594.

In Residnal (total female employment minus reported or estimated employment in the sub-branches of the national economy in each column.)

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TABLE VII-6.—Percentage of women wage workers by branch of industry, selected years, 1913-62 [Leaders () indicate data not available]	I9I	Percent	age of 1	vomen eaders (women wage workers by branch of [Leaders () indicate data not available]	orkers i	by bran a not ave	ck of valuable]	ndustr	y, selec	ed year	rs, 1918	8-62		
Вгапећ	Jan. 1, 1929 1	1930 1	Jan. 1, 1932 2	July 1, 1932 34	Jan. 1, 1933 s	October 1934 6	July 1, 1935 1	July 1, 1936 t	July 1, 1937 2	July 1, 1938 1	Nov. 1, 1939 2	Nov. 1,	May 5, 1950 4	Jan. 1,	Jan. 1,
In all industry	8.8	28.8	32.9	35.1	35.5		39. 5	40.1	41.6	42,1	43.4	42.9		44.2	44.0
Ferrous metallurgy	7.1			18.7		21.8	23.1	23.2	24.1	83.0	24.9	25.2		31.0	29.5
Oil refining Oil extraction				17.7		, 5, 6, 9, 5, 6, 9, 6, 6,		8	200		15.4	31.5		39.4	39.4
Electric power stations	8,8	12.2	20.7	21.4	22.8	21.9	16.7 25.8	117.4 26.9	16.1 26.1	16.8 29.7	31.7	22.8 31.5	40.0	30.5 39.3	88.9 4 6
Agricultural machine-building Locomotive and car building Electrotechnical Autofractor						2.888									
Production and other Metallic wares						27.0									
Mineral extraction and processing		23.7	25.9		29.1			35.9							
Coal Peat extraction	7.7	9.6	14.6	45.45 43.44	17.5		0.424	148.6 20.6	24.5	4, 62 4, 62 4, 63	24 4 25 62				
Iron ore	6.3			20.7			8.0	138.5	19.7	21.9	83.				
Chemical and fuel refining							31.7	1 33.5	134.2	36.5					
Chemical Rubber-asbestos Rubber	57.4	35.5	38.2	36.7 63.7 63.7	38.9	56.9	61.3	41.6	36.3 61.6	60.2	41.3			9 62.0	
Cement Glass				21.9 94.0		39.7		30.7	27.7		28. 6 49. 8	28.6		37.0	36.1
Chinaware Woodworking	10.01	23.4	29.6	4	32.0	52.6	i i	39.0		10	1				
Sawii wood Match Parer	6.4.7. 0.0.0			988 8		46.1	69.2	8 8 8 8 8 8 8 8 8	9.69.4 2.00.4	4.6.4	2.04.0 4.0.4	6.05			100
Textile and clothing	2	64.3	69.1	70.1	6.69	40. c	77.7	72.2	7	44.0	# 75. #	72.0	75.5	9 75.8	76.2
Textile Cotton textile	51.5	63.7	67.3	67.5	5 99	71.2	60 09	70.07	8 69	67.4	88	69.2		72. 4	72, 2
Wool	50.3	52.2	28.1	0.00	59.0	88		9	64.0	38	88			Ħ	

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85.1 85.4 85.5 85.5	181.9 82.4 82.4 83.4 82.7 83.8 85.3 82.0	155.7 58.4 57.2 58.2 60.6 6.2 66.1 64.1 64.1 65.1 65.2 66.1 64.1 64.1 65.5 46.8 47.2 47.2 48.6 50.8 53.1 53.8 54.4	47.8 48.5 68.1 70.5 70.5 70.2 59.8 65.2 68.1 70.5 70.5 70.2 59.8 40.6 41.9 47.8 47.8 84.1 28.2 28.7 34.1 65.1 70.5 70.2 59.8 63.3 64.2 65.1 70.5 70.5 70.2 59.8 58.5 58.5 66.7 70.5 70.5 70.5 70.5 70.5	156.1 57.2 55.5 57.8	r TSUNKhU Gosplans SSSR, Satenlisticheshoe stroitel stee SSSR, statisticheshii ezhe godnik, Mossow, 1934, pp. 223 and 346-347. Large-scale industry. o Tychnklu Gosplans SSSR, Zhenshchina v SSSR, Mossow, 1937, pp. 58, 62, 83-100. Large-scale industry. Data for 1932 and 1935 include apprentices; for Octoher 1934, adult wage workers. Thenshchina v SSSR, Mossow, 1960, pp. 37-38. Shenshchina v SSSR, Mossow, 1960, pp. 37-38. Shenshchina i dett v SSSR, Mossow, 1961, pp. 126-127. stroy SSSR po vo prosam truda i zaraboknoj platy, Trudonje rearray ISSSR (Proliemy raspredegnita i ispol-zowania), edited by N. I. Shishkin, Mossow, 1961, pp. 136-137.
- 84.9	82.5	7.88.44 7.88.00		54.0	5 TSUN podnik, M 6 TSUN Large-scal clarge-scal sodult wag 7 Zhensh 9 Zhensh 9 Nauch stroy SSS
	######################################	64.1	84.49 4.0	57.6	
		85.4	I mmmmm	6	o. 114. Late Plan tical Abs. e., Protand 194
82.6	80.1	51.3	8.8.8.9.7.9 6.00.00.00.00.00.00.00.00.00.00.00.00.00	₽	10, 1939, i if the St. R., Statis pizvodstv for 1932
-		83.5			tistics of U.S.S.I.
		88			iS thoziais ocial Sta m in the industry chestryen dustry.
	63.9	12.9			SOURCES "." Plarovoe k "." Plarovoe k Construction arge-scale ind may obshel "ge-scale ind "ge-scale ind "ge-scale ind ", 1935, pp.
Knitted wear	Hemp and jute	Leather and fur.	Breadhaking Candy Meat. Flour mill and grain cracking. Tobacco-makhorka.	Printing.	SOURCES 1 E. Orlikova, "Zhenskii trud v SSSR," Plaronee khozinisteo, No. 10, 1989, p. 114. Large-scale industry, including apprentices. 2 Central Administration of Become and Social Statistics of the State Planning Commission of the U.S.S. R., Socialist Construction in the U.S.S.R., Satistical Abstract, Moscow, 1989, p. 381. (In English.) Large-scale industry. 3 E. Orlikova, "Sovetska zhensholm v obstehestvennom proizvodstve," Problemy ekmonistic, No. 7, 1019 1960, p. 114. Large-scale industry. 2 Frenche Anna Administry. (SSSR Moscow, 1983, pp. 106-107. Data for 1982 and 1990 for

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Table VII-7.—Level of education of the employed population, by socioeconomic group and sex, in 1959

[Number per thousand]

				, , , , , , , , , , , , , , , , , , , ,						
	hlgh onds cializ	her, in- nplete er, sec- ery spe- ed edu- tion	seco	neral ndary cation	seco	mplete ondary cation	inco	ary and mplete indary cation	4-	s than year cation
	Male	Fo- male	Male	Fe- male	Male	Fe- male	Male	Fe- male	Male	Fe- male
Urban and rural population: All social groups Workers Employees Collective farmers Urban population: All social groups Workers Employees Collective farmers Rural population: All eocial groups Workers Employees Collective farmers Rural population: Collective farmers Collective farmers Collective farmers Collective farmers	508 14	116 16 476 6 184 19 459 10 60 9	60 56 124 29 82 67 129 38 40 36 113	68 63 161 18 109 76 169 23 34 34	271 314 227 218 302 336 210 221 241 270 285	247 298 284 174 304 318 290 160 200 253 266	386 459 121 413 362 449 110 420 408 480 146	272 353 69 308 243 350 71 292 295 361 64	180 148 20 326 101 121 18 293 255 200 26	297 270 10 494 160 237 11 515 411 343 8

Source: Itogi * * * 1959 goda, S.S.S.R., op. cit., p. 115.

Table VII-8.—Women holding doctoral and candidate degrees in 1950 and 1959-61

Academic degree		Oct.	1	
	1950	1959	1960	1961
Doctoral degree: Total number Number of women Percent women Candidate degree: Total number Number of women Percent women	8, 277 600 7 45, 530 11, 400 25	10, 530 1, 100 10 93, 999 27, 200 29	11, 945 1, 100 9 98, 262 28, 800 29	11, 300 1, 200 11 102, 500 29, 700 29

Sources: Zhenshchiny i deli v SSSR, Moscow, 1963, p. 129; Vysshee obrazovanie v SSSR, Moscow, 1961, p. 205; and Narodnoe khozlalstvo SSSR v 1982 goda, Moscow, 1963, p. 582.

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Table VII-9.—Women enrolled in secondary specialized educational institutions (excluding correspondence students), by field, at the beginning of the academic

[NA indicates data not available]

	Number in	thousands	Percentage	Percei	at women	of total enr	ollment by	fields
Year	Total	Women	of total en- rollment	Indus- trial ¹	Agricul- tural	Socio- economic	Health 1	Educa- tion ¹
1927	712.9 768.9 862.5 819.5 907.0 1,116.9 1,673.9 1,660.7 1,540.2 1,427.9	72. 0 (227. 7) (323. 5) (268. 5) (296. 1) (309. 1) (445. 1) (447. 8) 627. 2 916. 9 (863. 7) (739. 1) (672. 1) (637. 3) (838. 3) (838. 3) (848. 3) (849. 9) NA	54, 6 69, 1 53, 8 54, 8 52, 0 48, 0 47, 0 46, 0 48, 0	9. 5 25. 8 28. 5 30. 1 29. 6 28. 0 26. 8 27. 9 32. 0 50. 0 37. 0 38. 0 33. 0 33. 0 34. 0 34. 0	15.4 31.0 33.5 30.1 31.6 30.2 29.3 22.7 37.0 66.0 41.0 38.0 28.7 37.0 38.0 38.0 38.0 38.0 38.0 38.0 38.0 38	38.3 48.2 51.4 5 54.6 552.1 50.2 0 79.0 0 82.0 AAAAA NNA 74.0 0 74.0 AAAA NNA	89. 3 87. 3 85. 6 80. 7 79. 7 76. 3 83. 0 85. 0 85. 0 86. 0 84. 0 84. 0 86. 0 87. 0	53. 5 51. 9 54. 1 54. 6 55. 2 57. 0 60. 0 83. 0 77. 0 77. 0 77. 0 77. 0 77. 0 80. 0 80. 0

¹ The industrial field is used here to signify the related fields of industry, construction, transport, and communications. Similarly, the health field includes physical culture and sport; education, the fields of art and cinematography.

Sources: Percentages for 1927, 1940, 1945, 1950, 1955, 1958-61—Stednee spelstal'noe obrazovanie v SSSR, Moscow, 1962, p. 92; 1930, 1932-37 and 1936-57—DeWitt, Education and Professional Employment in the U.S.S.E., National Science Foundation, Washington, 1961, p. 613; the totals are from Kul'iurnoe strottel'stroe Moscow, 1956, p. 201, and Stednee spetsial'noe obrazovanie v SSSR, Moscow, 1962, p. 69. All 1962 data are from Narodnoe khoztaistvo SSSR v 1962 godu, Moscow, 1963, p. 573. Data for 1963 are derived from Narodnoe khoztaistvo SSSR, v 1963 godu, Moscow, 1965, pp. 566 and 578. 1964 data are from Vestnik statistiki, No. 2, 1965, p. 95.

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Table VII-10.—Number and percent of women among day and evening students enrolled in Soviet higher educational institutions, by field, at the beginning of the academic year 1926-37, 1940, 1950, 1955-61

[NA indicates data r:ot available]

End of year	Thou	sands	All	Engineer-	Agricul-	Socio-	Medicine	Educa- tional-
	Total	Women	fields	industrial	tural	economic		cultural
1926 1927 1928 1929 1930 1931 1932 1933	168. 0 168. 5 176. 6 264. 2 287. 9 405. 9 504. 4 458. 3	(51, 9) (48, 0) (51, 4) (59, 6) (81, 5) (125, 0) (168, 0)	30.9 28.5 29.1 29.2 28.3 30.8 33.3	7.2 13.4 14.3 15.6 15.5 17.7 19.8	16.3 17.4 18.4 20.4 25.4 28.1 30.6	16. 5 21. 1 27. 4 19. 4 24. 8 29. 8 34. 9	52. 0 52. 0 54. 0 56. 0 58. 0 64. 7 71. 4	48. 0 48. 7 49. 0 46. 7 44. 4 46. 9 49. 3
1935 1935 1936 1937 1940 1945 1	527.3 563.5 542.0 547.2 585.0 539.2	(167.3) (200.4) (198.5) (222.2) (236.9) (330.3) (323.5)	36.5 38.0 39.5 41.0 43.3 58.0 77.0	22.4 23.3 25.6 26.6 28.0 40.3 60.0	32.1 31.8 30.2 29.3 30.2 46.1 79.0	36.0 39.0 40.1 39.7 41.3 63.6 77.0	75. 1 71. 2 69. 0 68. 8 67. 5 74. 1 90. 0	50. 2 48. 4 46. 8 47. 4 48. 2 66. 5 84. 0
1955 1956 1957 1958 1960	845.1 1, 227.9 1, 277.9 1, 320.3 1, 332.9 1, 341.6 1, 400.4	(448.7) (642.2) (651.7) (646.9) (626.5) (603.7) (602.2)	53. 1 52. 3 51. 0 49. 0 47. 0 45. 0 43. 0	30.3 35.4 36.0 33.0 32.0 31.0 30.0	39.3 39.3 39.0 34.0 31.0 28.0 27.0	57. 0 67. 0 NA NA NA NA 1 49. 0	64.9 69.1 69.0 65.0 62.0 59.0 56.0	71. 9 72. 1 70. 0 66. 0 65. 0 63. 0
1961 1962 1963 1964	1, 511.0 1, 661.0 1, 822.0 NA	(634. 6) (697. 6) (783. 5) NA	42.0 42.0 43.0 43.0	28. 0 28. 0 29. 0 29. 0	26. 0 25. 0 25. 0 25. 0	NA NA NA NA	55. 0 54. 0 54. 0 52. 0	62. 0 62. 0 63. 0 64. 0

¹ Percentages for all fields in 1945 and for the socioeconomic field in 1960 refer to the total enrollment in higher educational institutions, including correspondence students. The percentage of women by field in 1960 is identical for regular and total enrollment. In 1940, 1950, and 1955, years in which both sets of data are available, they differ (when rounded) only in the educational-cultural field. The percentage of women in total enrollment in these years is given as 66, 71, and 71 percent, respectively, in Vysshee obrazovanie v SSSR, Moscow, 1961, p. 86. It is not likely, therefore, that the 1945 percentages the socioeconomic percentage for 1960 are seriously inconsistent with the rest of the table.

Sources: Through 1956, except 1945, De Witt, op. cit., p. 654; 1958-68, Narodnoe khoziaistvo SSSR v 1959 godu, Moscow, 1960, p. 751; and 1959-61, Narodnoe khoziaistvo SSSR v 1961 godu, Moscow, 1962, p. 699. 1945 and the socioeconomic field in 1960, Vysshee obrazovanie v SSSR, Moscow, 1961, p. 86. Totals for men and women or for women alone are based on Zhenshchiza v SSSR, Moscow, 1957, p. 121; Kul'turnoe strottel'stvo, Moscow, 1965, pp. 201-202; Vysshee obrazovanie v SSSR, Moscow, 1961, p. 80; and Narodnoe khoziaistvo SSSR, v 1961 godu, Moscow, 1962, pp. 688. All 1962 data are from Narodnoe khoziaistvo SSSR v 1962 godu, Moscow, 1963, pp. 572-573. Data for 1963 are derived from Narodnoe khoziaistvo SSSR v 1968 godu, Moscow, 1965, pp. 568 and 578. 1964 data are from Vestnik statistiki, No. 2, 1965, p. 95.

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Table VII-11.—Number and percent of female graduate students at end of calendar year, miscellaneous years, 1929-61 [NA indicates data not available]

رسان سيستري والمستدي معالي مور ميستد		Total enrolled in—	lled in—		Males			Females			Percent er	Percent enrolled in—
, co	Total	Tigher.	Posooroh	Total	Enrolled in—	-di be	Total	Enrolled in—	d in—	Percent females of the	Higher	Research
Tear	students	educational institutions	establish- ments	graduate enrollment	Higher educational institutions	Research establish- ments	graduate enrollment	Higher educational institutions	Research establish- ments	graduate	educational institutions	
			1,000		(5, 984)			(1,416)	233	23.0	19.0	8,83,83 8,93,8
1934 1935 1938 1940	10,600 12,186 16,900	13.9 6,300 175 175 175 175 175	4.8.8.0 500.00 100.00 100.00	8,288	6,367	3, 143 2, 410 1, 921	3,898	2,808 (5,742)	1,090	32.0	30.6 43.5 43.2	
			V	9,300			6,500 5,800 8,830	, and fire		39.0		
		21,400 17,800 20,406	8,000 7,800 16,348 20,494	45,84,85,85,85,85,85,85,85,85,85,85,85,85,85,	15,626	12, 723	9,200 7,400 11,748	4,780	3,625 4,702	31.0 22.9 24.7	88	. 22.2

Sources: Total figures for 1922, 1932, 1935, 1938, and 1940 are from K. Galkin, Viyshee objuraement is postporwin neuchnijkh kadrev SSSR, Moscow, 1955, pp. 101 for 1967, 1956, 1955 and 1956—Kul'turnes straider box SSSR, Moscow, 1955, pp. 255, and for 1968—Charlachina to SSSR, Moscow, 1957, pp. 228, 224, 1923, 1932, 1933, and for 1933—Charlachina to SSSR, Moscow, 1957, p. 100. The 1939 figure is fur Apr. 1, 1929; the 1931 total percentage (23 percent) is from Galkin, The Training of Scientists * * * p. 122, which conflicts with the other 1931 percentage figures (190 percent and 1929 percentage for objurcations of the 1931 percentage (24) percentage for operations and 1929 percentage for the conflict of the 1931 percentage for several figures from Galkin, Visske obvirzacinie * * * p. 115. The 1938 male and female figures from Kul'kurne straights. Moscow-Leningrad, 1940, p. 242. 1940 female

percentage—Galkin, Vysshee obrazoganie * * * , p. 115, 1946—Nov. 5, 1947. A. la. Sinetskii Professorsko-prepodeacafaskie skuly tysshei skuly SSSR, Moscow, 1950, p. 188. 1940, 1955, and 1956 female emrollment and percentages—Nurodnoe khaziustwo s SSSR na 1956 goda, p. 28, 1960 female emrollment and percentages—Nurodnoe khaziustwo o sowing se s SSSR, Moscow, 1961, pp. 223–24. 1961 female emrollment and percentages are calculated from data in Zevettii, Sept. 17, 1963, and Nurodnoe khaziustwo v 1983 goda, Moscow, 1963, p. 387. The author is indebted to Mr. Nicholas Rokitiansky for pointing out the Zevettii figures on female emrollment which were published in response to a letter be wrote the editor.

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Table VII-12a.—Women specialists with a secondary specialized education employed in the economy, by specialty, 1955-57, 1959-62

	n thous	ands]						
Speciality	July 1, 1955	Dec. 1, 1956	Dec 1, 1957	Dec 1, 1959	Dec, 1, 1960	Dec 1, 1961	Dec. 1, 1962	Dec. 1,
Total number of female specialists	i,960	2, 381	2, 623	3, 086	3,324	3, 532	3,723	3, 865
Technicians. Agronomists, zootechnicians, veterinary	309	114	499	660	701	816	873	922
personnel, foresters. The same, excluding foresters. Statisticians, planners, commodity special-	116	117	123 119	147	155	166	180	170
ists Legal personnel Medical personnel (incinding dentists)	144 7 668	194 7 818	217 6 895	287 5 1,026	329 5 1,088	375 5 1, 138	394 5 1,154	432 1,194
Teachers, library, and cultural enlighten- ment personnel	639 77	'738 93	773 110	826 135	861 185	902 150	948 169	962 179

Sources: Thenshchina v SSSR, Moscow, 1960, p. 59; Thenshchiny i deti v SSSR, Moscow, 1961, p. 130; Thenshchiny i deti v SSSR, Moscow, 1963, p. 120; Srednee spetsial noe obrazovavie v SSSR, Moscow, 1962, p. 42; Narodnoe khoziaistvo SSSR v 1968 godu, Moscow, 1963, p. 472; Narodnoe khoziaistvo SSSR v 1960, p. 616; Narodnoe khoziaistvo SSSR v 1956 godu, Moscow, 1957, p. 211; Narodnoe khoziaistvo S.S.R. v 1968 godu, Moscow, 1969, p. 420.

Table VII-12b.—Distribution of women specialists with secondary specialized education temployed in the economy, by specialty, 1955-57, 1959-63

Specialty	July 1, 1955	Dec. 1,1956	Deo. 1,1957	Dec. 1, 1959	Dec. 1,1960	Dec. 1,1961	Dec. 1, 1962	Dec. 1, 1963
Total female specialists	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Technicians. Agronomists, zootechnicians, veterinary	15.8	17, 5	19.0	21.4	21.1	23.1	23. 5	23. 9
personnei, foresters Same, exciuding foresters	5. 9	5.9	4.7 (4.5)	4.8	4.7	4.7	4.8	4.6
Statisticians, planners, commodity specialists Legal personnel. Medical personnel (including dentists). Teachers, library, and cultural enlighten-	7.3 .4 34.1	8.4 .4 34.5	8.3 .2 34.1	9. 3 . 1 33. 2	9, 9 . 1 32. 7	10. 6 1 81. 7	10.6 .1 31.0	11. 2 30. 9
ment personnel	32.6 3.9	30.2 4.0	29. 5 4. 2	26.8 4.4	25. 9 5. 6	25.5 4.3	25. 5 4. 5	24.9 4.6

Sources: See table VII-12a.

Table VII-12c.—Percentage of women of all specialists with secondary specialized education employed in the economy, by specialty, 1955-57, 1959-63

Specialty	July 1, 1955	Dec. 1, 1956	Dec. 1, 1957	Dec. 1, 1959	Dec. 1, 1960	Dec. 1, 1961	Dec. 1, 1962	Dec. 1, 1963
Percentage of women among all specialists with a secondary specialized education	67	66	65	65	63	63	63	62
Technicians Agronomists, zoo technicians, veterinary	38	219	40	39	36	38	38	38
personnei, foresters Statisticians, planners, commodity	46	40	40	41	41	43	44	43
specialists Legal personnel Medical personnei (including dentists) Teachers, library, and cultural en lighten-	77 30 91	77 30 91	74 30 91	74 80 92	74 30 92	74 30 91	74 30 92	70 92
ment personnel	78	79	80	81	81	82	83	82

Sources: See table VII-12a.

Table VII-13a.—Women specialists with a higher education employed in the national economy, by specialty, 1941, 1954-57, 1959-63

[In thousands]

			·							
Specialty	Jan. 1, 1941	Apr. 1, 1954	July 1, 1955	Dec. 1, 1956	Deca 1, 1957	Dec. 1, 1959	Dec. 1, 1960	Dec: 1, 1961	Dec. 1, 1962	Dec. 1, 1963
Total number of female specialists	312	1,098	1,155	1,396	1,464	1,701	1,865	2, 015	2, 133	2, 237
Engineers (including geologists)	44	162	168	205	233	293	329	379	409	434
cians, veterinarians, forestersEconomists-	18	55	65	70	74	87	94	100	107	109
statisticians, commodity specialists	18 3	56 13	62 15	76 18	90	111 21	113 22	129 24	159 25	171 25
dentists) Teachers and university graduates, except geolo- gists, legal personnel, physicians, economists,	85	204	228	247	260	285	302	815	331	841
fibrary and cultural en- lightenment personnel Residual	144	581 37	606 11	788 42	748 40	837 67	901 104	985 83	1,036 66	1,096 61

Sources: Zhenshchina v SSSR, Moscow, 1960, p. 58; Zhenshchiny i deti v SSSR, Moscow, 1961, p. 138; Zhenshchiny i deti v SSSR, Moscow, 1963, p. 118; Narodnoe khoziaistvo SSSR v 1968 godu, Moscow, 1963, p. 472; Narodnoe khoziaistvo SSSR v 1969 godu, Moscow, 1960, p. 615; Narodnoe khoziaistvo SSSR v 1968 godu, Moscow, 1961, pp. 52 and 68; Narodnoe khoziaistvo SSSR v 1963 godu, Moscow, 1965, p. 492.

Table VII-13b.—Distribution of women specialists with a higher education employed in the economy by specialty, 1941, 1954-57, 1959-63

Specialty	Jan. 1, 1941	Apr. 1, 1954	July 1, 1955	Dec. 1, 1966	Dec. 1, 1957	Dec. 1, 1959	Dec. 1, 1960	Dec. 1, 19 6 1	Dec. 1, 1962	Dec. 1, 1963
Total female specialists.	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Engineers (including geologists)	14.1	13.8	14. 6	14.7	15.9	17.2	17.6	18.8	19. 2	19. 4
Agronomists, zootechnicians, veterinarians, foresters Economists, economists-stat-	5.8	5.0	5.6	6.0	5.0	5.1	6.0	5.0	6.0	4.9
isticians, commodity spe- cialists Legal personnel	5. 8 1. 0	5.1 1.2	6.4 1.3	5. 4 1. 3	6.2 1.3	6.5 1.2	6.1 1.2	6.4 1.2	7.4 1.2	7. 6 1. 1
I'hysiclans (excluding dentists) T'eachers and university	27. 2	18.6	19.7	17.7	17.8	16.8	16.2	15.6	15. 5	15. 2
graduates, except geolo- gists, legal porsonnel, physicians, economists, library and cultural on- lightenment personnel Specialist in radio tech- nology and communica- tions, art, cinematography, physical culture and sports	46.1	52.9	52.4	52.9	51.1	49.3	48.3	48.9	48.6	49.0
and other unspecified specialties		3.4	1.0	3.0	2.7	3.9	5.6	4.1	3.1	2.7

Source: See sources for table VII-13a. The residual is incorporated as "other unspecified specialties."

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Table VII-13c.—Women specialists with a higher education employed in the national economy, 1941, 1954-57, 1959-63

[In percent]

Specialty	Jan. 1, 1941	Apr. 1, 1984	July 1, 1955	Dec. 1, 1956	Dec. 1, 1957	Dec. 1, 1959	Dec. 1, 1960	Dec. 1, 1961	Dec. 1, 1962	Dec. 1, 1963
Percent of women among all female specialists with a higher education	34	- 55	53	ŧ3	52	53	53	53	53	52
Engineers (including geologists) Agronomists, zootechnicians,	15	27	28	28	29	30	29	31	81	31
veterinarians, foresters Economists, economists statisticians, commodity	25	41	41	39	38	39	39	41	42	41
specialists Legal personnel Physicians (excluding	31 15	59 32	54 32	54 32	57 32	57 32	57 32	59 32	61 3 2	61 3 2
dentists) Teachers and university graduates (except geologists, legal personnel, doctors, economists), library and cultural en-	60	76	76	75	75	75	7	74	75	74
lightenment personnel	49	67	67	66	65	65	65	67	67	67

Sources: See sources for table VII-13a.

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Table VII-14.—Number of women scientific workers (including teachers and other workers in higher educational institutions) [In thousands of persons]

				}		0ct. 1—	ı					Nov. 1-	1-
	1947	1950	1952	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964
Total number of women scientific workers	51.3	59.0 16.6	65.7	81.6	87.0 19.7	93.7	101.4 23.7	111.1	128.7 26.3	150.0 28.0	38.0	204.8	219. 1 42. 9
Of which: Academiclans, corresponding members, professors. Dotsents and senior research workers.		96. 97.0	.7. 2.4.	. 0; 4 0:10	. 6. 9.8 1.9	10.4 5.4	10.5	11.2	12.0	12.7	14.9	15.6	16.0 16.8 8.8
Dotsonts. Senior research workers. Junior research workers and assistants. Those haring no seastemic titles.	្តែស្តីខ្លុំ ពេលប្តី	8.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0	3.7 9.6 47.2	4.8 8.9 9.9 9.9	9.3 9.3 8.3	5.0 11.3 71.4	5.0 12.5 77.7	5.4 85.7	5.8 13.6 102.4	6.0 14.5 122.0	22.7 138.7	24.9 163.4	25.2 176.2
							30 4 200 0 114 114 114 114 114 114 114 114 114		9	20	Tt should be noted that	1d be no	ted that

Sources: Zherahddiny i ddi v SSSR, Moscow, 1963, p. 129; Vysshee obrazovanie v Moscow, 1966, p. 251; SSSR, Moscow, 1966, p. 251; Kal'hurne strait-ino SSSR, Moscow, 1966, p. 251; he term "scientific worker". Narodnoe khozicistvo SSSR v 1958 godu, Moscow, 1959, p. 844; Narodnoe khozicistvo activity whether in the natuu SSSR v 1962 godu, Moscow, 1963, p. 583; Narodnoe khozicistvo SSSR v 1962 godu,

Moscow, 1965, p. 599; and Vestnike statistiki, No. 2, 1965, p. 96. It should be noted that the term "salentific worker" includes in Soviet usage any person engaged in scholarly activity whether in the natural sciences, social sciences, or humanities.

TABLE VII-15.—Women scientific workers having academic titles in higher educational institutions and research institutions in 1950, 1955, and 1860

R	THE U	J.S.S.R.		T
	Percent women	7.3 17.1 28.4 51.0	88.2	ion.
Oct. 1, 1960	Percentage distri- bution	2.8 23.5 21.9 51.8	100.0	They does to make a
	Number of women	6,171 5,761 13,614	26, 271	
	Percent women	6.2 16.8 30.4 52.0	27.0	
Oct. 1, 1955	Percentage distri- bution	3.0 25.7 23.7 47.6	100.0	
	Number of women	4, 807 4, 434 8, 915	18,711	
	Percent Women	5.4 94.8 30.4 48.0	26.9	
Oct. 1, 1950	Percentage distri- bution	20.8 20.8 56.8	100.0	
	Number of women	474 3,226 3,450 9,419	16, 569	
	Position	Academicians, corresponding members, and professors. Dotsetts Senior research workers.	Total	

The percentage of women among the totals is derived from the number and percentage of women of each rank. Source: Vysshee obrazovanie v SSSR, Moscow, 1961, p. 212.

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	Ã.≱		
Oct. 1, 1960	Percentage distri- bution	2 4 10. 001 2 2	
	Number of women	256 256 2, 053 164 6, 484 40, 482	
	Percent women	2000 2000 2000 2000 2000 2000 2000 200	
Oct. 1, 1955	Percentage distri- bution	0.2 7.55 7.00 11.18 82.8	
	Number 1 of women	96 1, 183 1, 185 1, 185 32, 682 39, 396	
	Percent women	21.3 21.3 22.9 72.9	
Oct. 1, 1950	Percentage distri- bution	6.0 6.7. 7.7. 7.7. 7.7. 100.00	
	Number of women	2, 1, 550 1, 550 110 2, 464 2, 464 2, 464 3, 312	
Posttion		ectors, deputy directors, for training and scientific work. And and departments. Casors. Ociate professors. Potal.	

Table VII-16.—Women scientific workers in higher educational institutions in 1950, 1955, and 1960

Source: Vysshee obruzovenie v SSSR, Moscow, 1861, pp. 208 and 212.

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Table VII-17.—Women scientific workers in scientific research institutions, enterprises, and other organizations, 1950, 1955, and 1960

	0	et. 1, 19	50	o	ct. 1, 19	55	0	et. 1, 19	30
Place and position	Num- ber of women	Per- cent- age distri- bution	Per- cent- age women	Num- bor of womon	Per- cent- age distri- bution	Per- cent- age women	Num- ber of women	Per- cent- age distri- bution	Per- cent- age women
n scientific research institutions: Scientific-administrative									
personnel Senior scientific	4, 768	16.0	23. 6	5, 120	12.7	23. 2	7, 442	9. 6	18.
workersOther positions	6, 047 19, 039	20. 3 63. 8	37. 2 55. 9	7,955 27,254	19. 7 67. 6	36.1 52.1	13, 516 56, 796	17.4 73.0	35.3 47. 0
Totaln enterprises and other	29, 854	100.0	42.4	40, 329	100.0	41.3	77, 754	100.0	38. (
organizations: Total	(888)	100.0	15.1	(2, 865)	100.0	34.4	(1, 574)	100.0	21, 9

Source: Vysshee obrazovanie v SSSR, Moscow, 1961, pp. 208 and 212.

Table VII-18.—Percentage of women administrators and teachers in elementary and secondary schools of the Ministry of Education and Ministry of Railways, 1940-41, 1950-51, 1955-56, and 1958-64

[At beginning of school year]

	1940-41	1950-51	1955-56	1958-59	1959-60	1960-61	1961-62	1962-63	1963-64
Percentage of women-teach-									
ers (including school directors)Of which:	60	70	70	70	70	70	70	69	69
Primary school directors 7-year and 8-year school	47	61	69	60	69	69	71	71	72
directorsSecondary school direc-	12	20	22	22	23	23	24	24	24
tors Heads of 7-year and 8-year	13	21	21	20	20	20	20	20	20
school training units	32	47	50	53	54	54	56	57	56
training units Teachers (excluding school	30	51	52	52	58	53	49	46	44
directors)	66	75		74		73	73		
Grades 1 to 4 Grades 5 to 7 Grades 8 to 11 Music, singing, physical		84 74 67	86 74 70	87 75 68	88 76 67	87 76 67	87 76 68	87 76 67	87 75 67
culture, and work teachers	17	19	30	26	27	. 26	27	27	28

Source: Zhenshchiny i deti v SSSR, Moscow, 1963, p. 127; Narodnoe khoziaistvo SSSR v 1962 godu, Moscow, 1968, p. 557; Narodnoe khoziaistvo SSSR v 1956 godu, Moscow, 1967, p. 247; Narodnoe khoziaistvo SSSR v 1959 godu. Moscow, 1960, p. 735; Narodnoe khoziaistvo SSSR v 1963 godu, Moscow, 1965, p. 561.

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Table VII-19.—Number of women physicians and their percentage of the total for selected years (excluding dentists and physicians in the military service)

Year	Thousands	Percent of total	Year	Thousands	Percent of total
1913 current boundaries	2.3 1.9 28.4 30.5 42.0 42.4 52.8 85.4 189.0	10 45 45 49 47 51 60 76	1955 1956 1957 1968 1968 1960 1960 1961 1962 1963	234. 3 246. 7 260. 2 272. 3 286. 1 302. 1 315. 9 333. 1 343. 6	76 75 75 75 75 75 74 75

Sources: Zhenshchiny i deti v SSSR, Moscow, 1963, p. 125; Narodnoe khoziaistvo SSSR v 1932 godu, Moscow, 1963, p. 617; Zhenshchina v SSSR, Moscow, 1936, p. 98; Zhenshchina v SSSR, statisticheekii sbornik, Moscow, 1937, p. 110; and Vestnik Statistiki, No. 2, 1964, p. 93.

CHAPTER VIII

COMPARISONS OF CONSUMPTION

1. A fundamental criterion for appraising the performance of an economic system is its success in providing for the material welfare of its citizens. Soviet regimes have accepted this criterion, and in fact have put forward communism's superiority in this respect as a raison d'etre for the continuing dictatorship of the party. Tables VIII-1 through VIII-7 provide some measures of performance of the Soviet economy since 1950. In addition, to provide standards for the measurement of Soviet performance, comparable measures of per capita consumption are presented for several substantially differing market economies, those of France, the German Federal Republic, the United Kingdom, and the United States. The basic measures employed are value aggregations of goods and services consumed directly by households.

2. Consumption per capita in the U.S.S.R. increased from about 20 percent of that in the United States during 1950 to about 30 percent of the level attained in the United States during 1963. Most of the gain relative to the United States had been attained by 1958. Since that year consumption per capita has grown at about the same rate in both countries. Compared with the West European countries, moreover, there was significant advance only with respect to the United Kingdom. Consumption per capita in the U.S.S.R. failed to progress significantly relative to that in France or Italy during the entire period 1950–62, and it actually declined substantially relative to that in the G.F.R.

3. In contrast with its failure to move dramatically with respect to the capitalistic economies, per capita consumption in the U.S.S.R. increased rapidly relative to its own past. By 1963 it had reached a level almost 70 percent above that in 1950, an average annual increase of about 4 percent per year. The increase was achieved with no substantial increase in civilian employment relative to population of working age and in spite of a 20-percent decline in annual hours worked per man in industry.

4. Per capita consumption in the U.S.S.R. did not fail to advance each year since 1955, but the rate of growth has fallen off drastically. After growing at an average annual rate of 5.7 percent between 1950 and 1955, consumption per capita rose only 4.9 percent in 1956 and the rate declined steadily to 2.3 percent in 1961. After recovering somewhat in 1962 the rate of growth plummeted to less than 1 percent in 1963. To some extent the decling rate of growth stemmed from and was compensated for by the declining number of hours worked per year.

5. Differences in the pattern of consumption in the U.S.S.R. compared with the United States result in part from the relative levels of income and in part from imposition of the party's preferences on the

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populace. Thus consumption of food per capita in the U.S.S.R. is relatively high because in a country with low incomes a larger share is required merely for sustenance. The relatively high level of consumption of health and education services in the U.S.S.R. reflect the fact that they are regarded in large part as investment by the Soviet government rather than as consumption. Nonfood products and services excluding health and education have lower priorities, and per capita consumption of these items amounted to little more than 15 percent of that in the United States even in 1963.

6. Some further insight into the nature of consumption in the United States and the U.S.S.R. is possible by making comparisons in physical units. Thus data in table VIII-4 show that in spite of substantial improvement in Soviet diets during the past 12 years, the share of starchy grain products and potatoes remained substantially larger in the Soviet diet of 1962 than in the American diet of more than

half a century ago.

7. Although there has been a rapid rise in stocks of consumers' durables in the U.S.S.R. during 1955-63, with notable exceptions they were quite small compared with similar stocks in the United States. (See table VIII-5.) This is true in spite of the fact that estimation procedures probably result in substantial overstatement of Soviet stocks relative to those of the United States. Furthermore, relatively large stocks of a particular durable good in the U.S.S.R. may reflect substitution of a more desirable product in the United States; for example, readymade clothes for sewing machines, and automobiles for motorcycles, scooters, or bicycles.

8. Finally, data in table VIII-6 provide some notion about the provision of medical, dental, and housing services in the United States and U.S.S.R. There were as many physicians per capita in the U.S.S.R. in 1950 as there were in the United States by 1962 and by the latter year their number had attained a level approximately half again that in the United States. During the period 1950-63 the U.S.S.R. also achieved parity in the number of hospital beds per capita. In spite of a rapid rise in the number of dentists, however, there were still fewer than one-third as many per capita in the U.S.S.R.

as in the United States.

PREFACE TO TABLES ON CONSUMPTION

General Note: The international comparisons shown in the following tables are subject to both statistical and conceptual limitations. Nevertheless, it is believed that the results are quantitatively fairly reliable. With respect to nonquantitative factors, however, the comparisons undoubtedly are biased in favor of the U.S.S.R. Although every effort has been made to match goods of identical quality in the two countries, precise matching has not always been possible. In housing and health services, in particular, the allowances for differences in quality probably are inadequate. Furthermore, there are two additional deficiencies in the Soviet pattern of consumption that could not be measured but that are unquestionably significant: first, the notorious lack of balance between supplies of particular goods and the consumer demand for them and, second, the lack of variety and diversity and the resulting lack of choice on the part of consumers. eonsumers.

Table VIII-1.—United States and U.S.S.R.: Total consumption per capita, 1950 and 1955-63

	1950	1955	1956	1957	1958	1959	1960	1961	1962	1963
United States ¹ (1955=100) U.S.S.R. ² (1955=190) U.S.S.R. consumption per capita as a	93 76	109 100	102 105	102 109	102 113	190 116	108 120	108 122	111 127	114 128
percent of United States 3	21	26	27	28	29	29	29	30	30	29

1 Based on data of the Department of Commerce. In addition estimates of public current expenditures on health and education are included.

2 Indoxes of per capita total consumption are derived from estimates of consumption of food products, nonfood products, and services (table VIII-2) weighted 61.4, 23.3, and 15.3 percent, respectively.

3 The datum for 1985 is from CIA, A Comparison of Consumption in the U.S.S.R. and the United States, January 1964, p. 15. Data for the remaining years are obtained by moving the datum for 1985 with the indexes of per capita consumption presented in this table.

Table VIII-2.—United States and U.S.S.R.: Consumption per capita by major product and service group, 1950 and 1955-63 ¹

	1959	1955	1956	1957	1958	1959	1960	1901	1962	1963
Food products:										
United States (1955=100) U.S.S.R. (1955=100) U.S.S.R. as a percent of United	97 81	100 100	102 105	102 109	9 9 111	100 112	100 113	99 115	101 118	101 318
States 3	39	46	47	50	52	52	52	54	54	54
United States (1955=100) U.S.S.R. 2 (1955=190) U.S.S.R. as a porcent of United	91 69	100 100	90 107	99 110	90 118	193 125	104 132	103 136	107 140	111 141
States 8Services, excluding health and oducation:	7	11	12	12	14	14	14	15	14	14
United States (1955=100) U.S.S.R. (1955=190) U.S.S.R. as a percent of United	91 75	100 100	103 105	$\frac{105}{112}$	108 119	119 128	114 135	116 141	120 151	123 160
States 3 Health and education services:	11	13	13	14	15	15	16	16	17	17
United States (1955=100) U.S.S.R. (1955=100) U.S.S.R. as a percent of United	99 84	100 109	105 101	108 100	114 110	119 115	123 120	$\frac{125}{120}$	129 131	133 136
States 8	44	52	50	51	50	50	51	52	52	53

¹ Unless otherwise noted indexes for the U.S.S.R. were obtained using the basic procedures presented in Dimensions of Soviet Economic Power, p. 360. Indexes for the United States are based on data from the Department of Commerce.

² Indexes for consumption of soft and durable goods based on procedures presented in Dimensions of Soviet Economic Power, p. 369 were combined with 1955 retail sales as base year weights.

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Table VIII-3.—United States and U.S.S.R.: Consumption per capita, by product or service group, 1955 1

[U.S.S.R. as a percent of United States]	
	Soviet per capita
	nsump-
t m	ion as a ercent of
P	United
Product or service group	States
Livestock products and canned goods	25.2
Meat and poultry	25.5
Fish	59.6
Canned goods	5.3
Fats and oils	28.5
Milk and milk products	35.3 20.8
Eggs. Sugar and confectionery products	$\frac{40.5}{49.5}$
Sugar and confectionery products	43.8
SugarConfectionery products	52.7
Cereal products and potatoes	161. 9
Prood and bakery products	119.5
Bread and bakery productsFlour, groats, and macaroni products	178.8
Potatocs	
Vegetables and fruits	29.2
Vegetables	55.3
Fruits	13.4
Nonalcoholic beverages	7.4
Alcoholic heverages	294.9
Textiles, apparel, and footwear.	17.2
Textiles	41.2
Apparel	10.7
Footwear	26.5
Tobacco	11.9
Household goods (excluding appliances)	$16.5 \\ 19.3$
Household soap and toilet articles	7.8
StationeryReading materials	35. 4
Furniture.	8.3
Dishware	21. 1
Ulsnware	
Household appliancesRadio, television, and sporting goods	10. 4
Appliances and timerieses	7.3
Appliances and timepiecesAutomobiles and gasoline	. 3
Automobiles	. 3
Gasoline	. 1
Rent, utilities, and communications	16.5
Rent	21.7
Utilities.	11.8
Household fuel	4.0
Communications.	24.1
Public transportation Recreation and personal and miscellaneous services	$108.2 \\ 4.2$
Recreation and personal and miscellaneous services	17.6
Recreation	6.7
Personal care and repair servicesMiscellaneous services	8
Health and education services	
Total consumption Total consumption excluding health and education services	26.2
Total consumption excluding health and education services	23.2
CIA, A Comparison of Consumption in the U.S.S.R. and the United States, January 1964, pp.	16-18.
-OIA, A Comparison of Concemposate at the Concess and the Contest and the	•

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Table VIII-4.—United States and U.S.S.R.: Availability of food products for human consumption, by major food group, selected years

[In calorles	per	caplta	per	dayl
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		u.s.	S.R.1		United	States	U.S.S.R. as percent of United States in 1909-13		
	1953	1955	1959	1062	1909-132	1962 8	1953	1959	1962
Grain products, potatoes, and pulses. Fats and oils, including butter	2, 169 209	2, 082 227	1, 959 288	1,930 288	1, 557 555	874 646	139 38	126 52	124 52
Sugar Meat and fish Milk and mllk products, excluding	168 139	193 156	253 184	292 187	405 405	509 471	41 34	62 45	72 46
butter Vegetables, fruits, eggs, and other	220	250	316	805	335	407	66	94	91
foods Total 4	3, 100	3, 100	3, 200	3, 200	233 3, 490	3, 180	84 89	86 92	85 92

¹ Unless otherwise noted consumption of food items in the U.S.S.R. was estimated as described in "Dimensions of Soviet Economic Power," p. 380, and was converted to calorlike values with factors from U.N., Food and Agriculture Organization, Food Composition Tubles for International Use, 1954.

2 Based on data in Consumption of Food in the United States, 1904-52, pp. 162 and 170.

3 Based on data in Agricultural Statistics, 1963, p. 584, and Statistical Abstract of the United States, 1964, p. 87.

4 Average daily calorio intake during calendar year.

TABLE VIII-5 .- United States and U.S.S.R.: Estimated stocks 1 of consumers' durables at the end of selected years, 1955-63

[Units per thousand persons 2]

Comercia	p	barra por	DO11D 1			
		U.S.8	S.R.8		United States,4	U.S.S.R. as a percent of
	1955	1958	1960	1963	1963	United States In 1963
Scwlng machines Radlos Radlos Television sets Motorcycles and scooters Automobiles Refrigorators Bashing machines Electric vacuum cleaners Planos	31 58 5 4 NA 5 1 2	64 106 15 8 NA 8 6 5	92 140 27 13 4 13 13 8 21	132 190 53 20 NA 23 36 15	5 135 6 974 6 318 7 4 2 272 288 216 211 NA	98 20 17 500 1 8 17 7 NA

¹ Comparisons in this table overstate both levels and growth of stocks in the U.S.S.R. compared with the United States. Data for the U.S.S.R. genorally are computed from shipments to retail sales outlets cumulated annually since 1950 with no allowance for sorappage, and therefore they usually represent maximum possible stocks. Soviet data in secondary sources permitting an independent estimate for 1960 suggest the following overstatement of stocks in the U.S.S.R. in percent; radios, 10 to 20; television sets, 10 to 20; refrigerators, 50; sewing machines, 10; washing machines, 10; and 2-wheeled vohicles, 20. Data for the United States, on the other hand, hased on numbers of households owning the specified item, normality fall to reflect multiple holdings, and therefore understate actual stocks. Furthermore, the list does not show the great margin of superiority of the United States with respect to such durables as alr conditioners, clothes dryers, home freezers, dishwashers, food disposers, electric hlankets, hlenders, nair dryers, mixers, toasters, and so on. Finally, mere numbers also fail to provide any indication of the superior quality of American appliances.

² Based on total population at mildyear for the U.S.S.R. from CIA, Labor Supply and Employment in the U.S.S.R., 1950-70, August 1964, p. 16, and on total resident population (excluding Armed Forces ahroad) at mildyear for the United States from Statistical Abstract of the United States, 1964, p. 5.

² Data on stocks of durables in the U.S.S.R. are based on information in the following publications of the TSSU U.S.S.R. is 1962 godu, p. 720; Narodnoye khozyaystvo SSSR v 1962 godu, p. 638; Narodnoye khozyaystvo SSSR v 1962 godu, p. 750; Narodnoye khozyaystvo SSSR v 1963 godu, p. 750; Narodnoye khozyaystvo SSSR v 1963 godu, p. 757.

¹ Unloss otherwise noted based on a sample of households interviewed Apr. 16 to May 10, 1963. Statistical Abstract of the United States includes only electric sewlng machines.

¹ Data for the United States rofer to 1961 for ra

automobiles.

Bestimated stock as of early 1962. It oxcludes publicly owned vohicles, vehicles privately owned for business use, and third vehicles of individual sponding units. Data are from Statistical Abstract of the United States, 1964. p. 564.

NOTE.—NA indicates data not available.

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Table VIII-6.—United States and U.S.S.R.: Health services at the end of selected years, 1950-63

		u.s.	S.R.1	United States, ² 1962	U.S.S.R. as a percent of United States levels in 1962		
	1950	1955	1958	1963		1950	1963
Doctors (number per 10,000 persons)	14 1.0 56	16 1.2 65	17 1. 3 73	21 3 1. 6 90	14 5.6 91	100 18 62	150 29 99

¹ Unless otherwise noted data are from the following publications of the TsSU U.S.S.R.: Narodnoye khozyaystvo S.S.S.R. v 1958 godu, pp. 879 and 881; Narodnoye khozyaystvo S.S.S.R. v 1963 godu, pp. 8 and 615; S.S.S.R. v tsifrakh v 1963 godu, p. 191.

2 Unless otherwise noted data are from Statistical Abstract of the United States 1964, pp. 69 and 75.

3 Datum is for 1962.

Table VIII-7 .-- U.S.S.R. and selected Western European countries: Consumption per capita, by major product and scrvice group, 1 1950, 1955, and 1962

[U.S.S.E. as a percent of given country]

	France			German Federal Republic			Italy			United Kingdom		
	1950	1955	1962	1950	1955	1962	1950	1955	1962	1950	1955	1962
Food. Clothing	62 32 50 31 49	63 42 46 43 57	64 44 42 49 59	NA NA NA NA NA	61 45 46 } 63	54 47 34 58	90 51 114 133 93	90 76 103 250 101	80 78 103 211 98	55 24 31 15 40	61 37 30 26 52	67 44 32 37 62
'Total	52	57	56	63	59	53	88	96	89	42	50	56

I Household consumption in both countries valued in U.S. dollars. 1955 U.S. prices are expressed as factor costs which are equal to market prices plus subsidies infinis indirect taxes. Data for Westorn European countries were obtained from Milton Gilbert & Associates, Comparative National Products and Price Levels, OEEC, Paris, pp. 86 and 168. Comparable data for the U.S.S.R. were obtained by making adjustments in Soviet consumption at 1955 U.S. market prices from CIA, A Comparison of Consumption in the U.S.S.R. and the United States, January 1964, pp. 16-18. Data for Western European countries for 1950 and 1962 were obtained by moving the 1955 data with indexes of consumption per capita based on population data from the Burcau of Census and computed from data in OECI). National Accounts, Supplement of the General Statistics Bulletin, March 1964, pp. 29-24, 28, and 36 and OECI). National Accounts, 1950-61, Paris, 1964, pp. 90, 98, 130, and 196. The items included in the major product and service category indexes are not identical to those included by Gilbert & Associates, the major discrepancy being the failure of the former to include public expenditures on health and education. If the rates of growth in public expenditures per capita did not differ greatly from growth in per capita consumption as a whole, the data as presented should provide a close approximation to the results which would be obtained if the categories could be made strictly comparable. Data for the U.S.S.R. for 1950 and 1962 were obtained by moving the data for 1955 by Indexes shown in table VIII-2 with adjustment to achieve comparability with Gilbert's categories.

data for 1995 by indexes shown in table 1 11.2 and a substitute of the providing data for the housing comparisons in 1955 attempt to take account of differences in quality. The authors of the Soviet-American comparison feel, however, that their quality adjustments are imadequate, and that their data for the U.S.S.R. considerably overstate availability of housing there relative to the United States. To the extent that this is true, the comparisons in this table, though more accurate than mere physical measures of floor space, probably also overstate the availability of housing in the U.S.S.R. relative to France, the German Federal Republic, Italy, and the United Kingdom.

3 "Other" includes expenditures on such items as alcoholic boverages, tobacco, household goods other than durables, household and personal services, public transport, communication, recreation and entertainment, health, and education.

Note.-NA indicates data not available.

CHAPTER IX

SOVIET BUDGET

1. The state budget of the U.S.S.R. is the chief vehicle for mobilizing the economic surplus of the economy over and above household consumption and for apportioning it among various competing ends (the general activities of investment, national defense, welfare, and government administration). The Soviet budget is far broader than Western national budgets—for example, the Soviet budget includes funds for investment and operational expenditures of productive enterprises that, in capitalist economies, are by and large privately financed.

2. Although the budget is the principal channel for allocating funds to economic enterprises and organizations, these enterprises and organizations also are financed from retained profits and bank loans. In addition, the collective farms, which are not financed from the budget, finance their activities out of retained income and

bank loans.

3. The Soviet state budget is a consolidated budget, combining the all-union budget, the budgets of the union republics, and the social security budget. Its announcement in December of the preceding year might be expected to provide an early indication of Soviet policies for the coming year and of fulfillment in the past year. In recent years, however, the possibility of discerning Soviet policy on allocation of resources through an examination of budget material has been impaired by the paucity of detail on planned budgets and the absence of information on actual budget revenues and expenditures in each preceding year. Furthermore, unannounced accounting changes and substantial divergence of actual from planned budgets limit the value of announced budget plans and make analyses of trends in financial categories a risky business.

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Table IX-1.—U.S.S.R.: Revenues of the state budget, by budget category, 1955 and 1959-63,1 actual receipts

[[n	billions	of	current	ru	bles	Ì
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	1955	1959	1960	1961	1962	1963
Social sector	47. 62	66. 61	70.14	71.0	76. 7	81. 4
Turnover tax Deductions from profits Revenue from MTS-RTS's. Other taxes on organizations Social insurance receipts. Revenue residual.	24. 24 19. 28 . 62 l. 24 2. 61 8. 63	31. 07 15. 96 . 18 1. 90 3. 58 13. 91	31.34 18.63 2 (0) 1.84 3.74 14.58	30. 9 20. 7 (0) 1. 2 4. 2 14. 0	32. 9 23. 9 (0) 1. 3 4. 5 14. 1	34. 5 25. 7 (0) 1. 4 4. 7 15. 1
Private sector	3.82	7.41	6.94	7.0	7. 6	8.1
State taxes on the population	4, 83 , 53 3, 15 , 31	5. 52 1. 33 .16 .40	5, 60 , 85 , 06 , 43	5.8 .76 .03 .4	6, 0 1, 1 , 1 , 4	6.3 1.2 .1
Total revenues	56. 43	74. 01	77.08	78.05	84.3	89. 5

¹ Due to rounding, components may not add to the totals shown. Rubles are expressed in terms of new rubles.

2 Figures in parentheses are estimates.

Note.—NA indicates data not available.

Sources: Dundukov, G. F. (ed.), Gosudarstvennyy byudzhet SSSR i byudzhety soyuznykh respublik: statisticheskiy sbornik, Moscow, 1962, pp. 7-9. U.S.S.R., TsSU. Narodnoye khozyaystvo SSSR v 1963, Moscow, 1963, p. 635. U.S.S.R., TsSU. Narodnoye khozyaystvo SSSR v 1963, Moscow, 1965, p. 654.

Table IX-2.—U.S.S.R.: Expenditures of the state budget, by budget category, 1955 and 1959-63, actual outlays

[In billions of current rubles]

	1955	1959	1060	1961	1962	1963
Financing the national economy	23. 31	32, 37	34. 12	32. 6	36, 2	38.8
Industry and construction State agriculture Agricultural procurement Trade (domestic and foreign) Transportation and communications. Municipal economy and housing Residual	. 76 1. 07 1. 95	14. 88 3. 52 2 (. 5) 3. 21 2. 69 2. 75 (4. 83)	15. 59 4. 42 (. 5) 3. 59 2. 81 3. 21 (4. 00)	NA NA NA NA NA NA	NA NA NA NA NA NA	NA NA NA NA NA NA
Social-cultural measures	14.72	23, 12	24, 94	27. 2	28, 9	31.0
Education and science Health and physical culture Social welfare	6.89 3.11 4.71	9. 41 4. 46 9. 24	10. 32 4. 82 9. 79	11. 3 5. 0 10. 9	12. 4 4. 9 11. 6	13. 7 5. 3 12. 0
Defense	10. 74 1. 25 1. 43 2. 51	0, 37 1, 12 , 69 3, 73	9. 30 1. 09 . 7 2. 97	11. 6 1. 1 . 8 3. 0	12. 6 1. 1 . 8 2. 6	13. 9 1. 1 . 1 2. 1
Total expenditures	53.95	70. 40	73, 13	76. 3	82, 2	87. 0

¹ Due to rounding, components may not add to the totals shown. Rubles are expressed in terms of new rubles.

Figures in parentheses are estimates.

Note.—NA indicates data not available.

Sources: Dundukov, G. F. (cd.), Gosudorstvennyy byudzhet SSSR i byudzhety soyuznykh respublik: statisticheskiy sbornik, Moscow, 1962, pp. 18-19. U.S.S.R., TsSU. Narodnoye khozyaystvo SSSR v 1963, Moscow, 1959, p. 900. U.S.S.R., TsSU. Narodnoye khozyaystvo SSSR v 1963, Moscow, 1960, p. 801. U.S.S.R., TsSU. Narodnoye khozyaystvo SSSR v 1963, Moscow, 1963, p. 635. U.S.S.R., TsSU. Narodnoye khozyaystvo SSSR v 1963, Moscow, 1965, p. 654.

CHAPTER X

EDUCATION 1

Total Soviet education enrollments (excluding factory training programs) increased from 49.5 million in the 1962–63 school year to 52.4 million in 1963–64. With a larger school age population in the U.S.S.R. than in the United States, the total numbers in school were roughly comparable in the two countries. In the fall of 1962, total elementary, secondary, and higher education enrollments in the United States were 49.8 million and, in the fall of 1963, 51.7 million. (The U.S. figures include kindergarten enrollments, the Soviet figures do not.)

Enrollments in upper secondary general education, grades 9 to 11, in the U.S.S.R. increased from 4.6 million in 1962–63 to 5.7 million in 1963–64. During the same period, U.S. school enrollments in grades 9 to 12 increased from 11.5 to 12.3 million. Despite the increase, the Soviet Government decided to return to a 10-year school system, upper secondary education to consist of grades 9 and 10, in 1964.

Soviet higher education enrollments increased from 2.9 million in 1962-63 to 3.3 million in 1963-64. U.S. higher education enrollments were 4.2 million in the fall of 1962 and 4.5 million in the fall of 1963. Enrollments in regular day programs of higher education have increased very slightly in the past decade in the U.S.S.R. from 1.1 million in 1954-55 to 1.4 million in 1963-64. The bulk of the increase has been in higher education by correspondence-extension courses, enrollments in such courses increasing about 2½ times in the same decade to the 1963-64 total of about 1 million.

Soviet total education expenditures (in all categories listed in Soviet tables except press, art, and radiobroadcasting) increased from 15.5 billion rubles in 1962 to 16.9 billion rubles in 1963. At the official rate of exchange of 1.10 dollars to 1 ruble, the amounts were about 17.1 billion dollars in 1962 and 18.6 billion dollars in 1963. U.S. education expenditures, not directly comparable to Soviet expenditures, were approximately 32 billion dollars during the 1962–63 school year.

¹ U.S. statistics cited here are from *Progress of Public Education in the United States of America 1963-64*. U.S. Department of Health, Education, and Welfare, Office of Education Report OE-10005-64-A. Washington: U.S. Government Printing Office, 1964. 73 pages.

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Source: Data in the tables on education are primarily from the following source: Narodnoe khoziaistvo SSSR v. 1963 g., statisticheskii ezhegodnik (National Economy of the U.S.S.R. in 1963, statistical yearbook), published by the Central Statistical Administration attached to the U.S.S.R. Council of Ministers, Moscow, 1965. Data from other official Soviet statistical handbooks have also been included.

Table X-1.—Enrollment in schools and training programs of various types at all levels, U.S.S.R., selected years, 1914-15 to 1963-64

[Thousands of students at beginning of school year]

Schools and training programs	1914-15	1940-41	1952-53	195859	1959 –60	1960-61	1961-62	1962-63	1963-64
Total enrollment	10, 588	47, 547	47, 717	46,057	48, 741	52, 600	56, 340	61, 265	65, 100
General education schools of all types	9,656	35, 552	32, 643	31, 433	33, 364	36, 187	39, 087	42, 445	44, 682
Primary, 7-year, 8-year, and complete second- ary schools Schools for workers and rural youth and schools for adults (in-	9, 656	34, 784	30, 953	29, 567	31,046	33, 417	35, 813	33, 482	40, 478
cluding correspond- ence study)		768	1, 690	1,916	2, 318	2,770	3, 274	3, 960	4, 204
Trade-technical and factory schoolsSecondary specialized edu-	106	717	774	904	996	1, 113	1, 266	1, 397	1, 491
cational institutions 1	54	975	1,477	1,876	1,908	2,060	2, 370	2, 668	2, 983
Higher oducational institu- tions Training programs for new trades and raising qualifi- cations in factory and	127	812	1, 441	2, 179	2, 267	2, 396	2,640	2, 944	3, 261
other courses (excluding political education)	645	9, 491	11, 382	9,615	10, 206	10, 844	10,977	11,814	12, 683

¹ These are industrial technicums and other secondary specialized schools, providing vocational-technical training.

Table X-2.—Schools of general education of all types, number of schools, enrollment, and number of teachers, U.S.S.R., 1950-51 and 1958-64

[At beginning of school year]

	1950-51	1958-59	1960-61	1962-63	1963-64
Schools of general education of all types	222	215	224	227	221
Total enrollment (thousands)	34, 752	31,483	36, 187	42,442	44, 682
Of which: Grades 1 to 4 Grades 5 to 8 ¹ . Sth grade students. Grades 9 to 11	20, 023 13, 705 929 907	17, 779 10, 571 1, 633 3, 022	18, 659 14, 798 2, 527 2, 594	19, 426 18, 233 3, 947 4, 596	19, 700 19, 105 4, 502 5, 654
9th grade students	495 382 30	1,397 1,589 36	1,385 1,152 57	2,488 1,681 427	2, 620 2, 089 945
Students in schools for mentally and physically handicapped children	117	111	136	187	217
Total number of teachers (thousands)	1,475	1,900	2,043	2,235	2,339

¹ The significant increase in the number of students in grades 5 to 8 for recent years is attributable to the transition from the compulsory 7-year general school to the compulsory 8-year general school.

NOTE.—Boarding schools, and schools and groups with a prolonged day underwent expansion. At the beginning of the 1963-64 school year the enrollment in boarding schools and in schools and groups with a prolonged day was 2,400,000.

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Table X-3.—Primary, 7-year, 8-year, and complete secondary schools, number of schools, enrollment, and number of leachers, U.S.S.R., 1952-63 and 1958-59 to 1963-64

1905-04 [At beg	inning of	school y	ear]				
	1052-53	19 58~59	1959-60	1900-61	1961-62	1962-63	1963-64
Total number of schools (thousands) 1	198. 3	199.7	199.3	199. 2	108.8	197. 6	195. 5
Primary	115, 8 02, 0	112, 4 55, 7	111, 0 54, 4	110. 1 36. 4	108. 0 21. 1	105. 4	101. 8
7-year 8-year Complete secondary	19.7	30.7	2, 1 30, 2	22. 5 29. 2	40. 5 28. 0	62, 8 28, 1	63. 7 28. 8
Special schools for mentally and physically handicapped children	.8	. 0	1.0	1, 0	1.2	1.3	1.
Total enrollment (millions)	30.9	29. 6	31.0	33. 4	35. 8	38. 5	40.
Primary	4. 5 13. 6	4. 5 8. 9	4. 5 9. 3	4, 4 6, 1 5, 9	4. 4 3. 1 11. 2	4.3	4. : 17.
8-year Complete secondary Special schools	12.7	10. 1 , 1	10, 3	10. 9	17. 0 . 1	18.0 .2	19.
Total number of teachers (thousands)	1, 531, 0	1,813.0	1, 855. 0	1, 933. 0	2,024,0	2, 120. 0	2, 218.

¹ Excluding schools for working and rural youth and schools for adults.

Table X-4.—Higher and secondary specialized educational institutions, number of schools, and enrollment by type of instruction, U.S.S.R., 1952-53, 1958-59 to 1963-64

1900-04	1952-53	1058-59	1959-60	1960-61	1961-62	1962-63	1963-64
Higher schools: Total number	827	766	753	739	731	738	742
	1,441	2, 179	2, 267	2,390	2, 640	2, 944	3, 261
Day division Evening division Correspondence instruction	933	1, 180	1, 146	1, 156	1, 204	1, 287	1,383
	38	153	106	245	307	374	439
	470	840	925	995	1, 129	1, 283	1,439
Secondary specialized schools: Total number	3, 604 1, 477	3, 346 1, 876	3, 330 1, 908	3,328 2,000	3,416 2,370	3,521 2,068	
Day division	1,219	1,125	1,067	1,091	1, 203	1,310	1, 474
Evening division	82	303	318	370	431	489	536
Correspondence instruction	176	448	523	599	736	869	973

Table X-5.—Enrollment in secondary specialized educational institutions, by groups of specialties, U.S.S.R., 1952-53, 1958-59 to 1963-64

[Thou	ands of s	tudents]					
Groups of specialties	1952-53	1958-59	1959-60	1060-61	1961-62	1902-63	1963-64
All specialties, total	1, 477. 4	1, 875. 9	1,907.8	2, 059, 5	2,369.7	2, 667. 7	2, 982. 8
Geology and prospecting for mineral resources. Mining of mineral resources. Power engineering. Metallurgy. Machine building and instrument making. Electromachine huilding and electro instrument making. Radiotechnics and communication. Chemical tochnology. Timber engineering and technology of wood, celluloso, and paper. Technology of food products. Technology of consumer goods. Construction. Geodesy and cartography. Ilydrology and meteorology. Agriculture. Transport. Economics. Health and physical cutture. Education. Art.	19, 9 49, 0 57, 6 19, 9 185, 3 40, 4 27, 2 17, 8 23, 7 27, 7 108, 6 5, 4, 1 219, 7 52, 8 130, 8 153, 2 303, 2	11. 1 54. 3 77. 5 24. 0 339. 7 59. 3 31. 6 29. 7 51. 3 6. 2 293. 5 98. 8 220. 2 164. 0 136. 6	10, 8 47, 8 84, 3 24, 3 330, 2 33, 2 01, 4 34, 0 27, 3 50, 3 51, 8 145, 6 6, 3 5, 9 301, 3 101, 0 236, 2 159, 5	59. 7 152. 0 6. 4 6. 3 292. 4 112. 3 261. 5 176. 3 154. 3	6. 6 314. 8 126. 8 317. 4 232. 9 183. 6	340. 9 147. 1 371. 2 257. 6 212. 8	7.0 380.1 106.9 401.8 279.5 237.4

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Table X-6.—Enrollment of primary, 7-year, 8-year, and complete secondary schools, by class grouping, U.S.S.R., 1950-51 and 1958-64

[At beginning of school year; in millions]

	1950-51	1958-59	1960-61	1962-63	1963-64
Total enrollment 1	33, 3	29. 6	33. 4	38. 5	40, 5
In cities and urban areas In rural areas	11.8 21.5	13.7 15.9	16. 1 17. 3	18. 9 19. 6	20, 1 20, 4
Classes 1 to 4, total	19. 7	17. 7	18, 6	19. 4	19, 6
In cities and urban areas In rural areas	6, 2 13, 5	7. 6 10. 1	8, 4 10, 2	9, 0 10, 4	9. 2 10, 4
Classes 5 to 8, total	12.8	9. 6	13, 2	16, 2	17, 3
In cities and urban areas In rural areas	5. 1 7. 7	4.8 4.8	6, 7 6, 5	8. 0 8. 2	8, 6 8, 7
Classes 9 to 11, total	.7	2, 2	1, 5	2.7	3. 4
In cities and urban areas In rural areas	.4	1, 2 1, 0	.9	1. 7 1. 0	2, 2 1, 2

¹ Excluding enrollment figures for the mentally defective and physically handicapped.

Table X-7.—Schools for workers, peasant youth, and adults, U.S.S.R., 1950-51 and 1958-64

[At the beginning of the school year]

	1950-51	1958-59	1960-61	1932-63	1963-64
Total number of schools I Independent institutions	20, 465 12, 204	15, 493 9, 947	25, 229 12, 331	29, 096 12, 778	25, 647 13, 064
Total enrollment (including correspondence course students (in thousands))	1, 437. 8	1, 916. 3	2, 769, 9	3, 960, 3	4, 203, 5
Classes 1 to 4 Classes 5 to 8 Classes 9 to 11	352, 2 894, 1 191, 5	50. 9 1, 048. 5 816. 9	54, 2 1, 654, 6 1, 061, 1	81. 9 2, 002. 2 1, 876. 2	84. 7 1, 882. 8 2, 236. 0

¹ Including elementary, 7-year, 8-year, and complete secondary schools which offer organized classes for the instruction of working and peasant youth, as well as independent correspondence schools.

Table X-8.—Nursery schools.—Number of schools, enrollment, and number of teachers and principals, U.S.S.R., 1927-63

[At the end of the year]

Voca	T	otal (thousand	s)
Year	The number of nursery schools	The number of children	Principals and teachers
1927 1932 1937 1940 1960 1968 1968 1960 1968	Thousands 2. 1 19. 6 24. 5 24. 0 25. 6 30. 8 43. 6 52. 7 57. 6	Thousand 107. 5 1, 061. 7 1, 045. 3 1, 171. 5 1, 168. 8 2, 354. 1 3, 115. 1 4, 171. 7 4, 813. 0	Thousands 6, 1 52, 0 71, 5 75, 2 92, 6 191, 9 248, 4 311, 8 350, 4

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				Of those (ir	Of those (in percentages of the total)	f the total)		
	Total		Tho	Those with education	ion		Those with service in pedagogical work	service in sal work
	teachers (without other positions)	Higher	In teachers' institutes and comparable educational institutions	Secondary	Of that number pedagogical	Without complete Secondary education	Up to 5 years	25 years and more
(including school directors): 1	Thousands 1, 425 2,119	14.2	20.4	58.9 44.7	. 46.9 35.6	6.5	*## ### ###	7.9
	1			6	6		19.9	7 91
ipals of elementary schools	101	2 2	200	91.0	⊃ 67 70 70 70		2.7.6	17.8
stors of 8-year schools	28	96.	9 45	P C	. 63		4.4	23.6
etors of secondary schools	3.55	88.1	24.6	7.3	5.9	₽.	13.0	6.6
ctors of studies of secondary schools	133	83.4	8.9	7.5	9.9		14.8	12.8
hers (except for teachers-directors of the schools);	647	4 9		88 4	79.9		19.9	12.0
Theses f to 8		56.4	27.7	. 15.7	6.6	2	183 183 183 183 183 183 183 183 183 183	200
7]8xgs 9 to 11	200	87.1	9.2	ф 63	2.0		22.5	7.6
thers of music, singing, drawing (art), drafting,	676	15.2	. 7.2	61.8	29.2	15.8	46.5	3.9

¹ Directors of schools generally perform teaching duties.

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TABLE X-10.—Distribution of teachers in classes 5 to 8 and 9 to 11, including directors, directors of studies, and persons in charge of instruction at the beginning of the 1963-64 school year, U.S.S.R. [According to schools of the Ministres of Education and the Ministry of Transportation]	es in classes 5 to 8 and 9 to 11, including directors, directors of studic pecialties and level of education at the beginning of the 1963–64 school [According to schools of the Ministies of Education and the Ministry of Transportation]	9 to 11, in ucation at t inistries of Ed	cluding dire the beginnin lucation and th	ctors, directo g of the 1960 e Ministry of T	rs of studie 3–64 school ransportation]	s, and perse year, U.S.L	ons in charge S.R.	e of instruc-
		Teachers,	Teachers, classes 5 to 8			Teachers, o	Teachers, classes 9 to 11	
		Of those wit	Of those with education (in percentages)	r percentages)		Of those wit	Of those with education (in percentages)	percentages)
	Total of teachers (without other rosi- tions—in thousands)	Higher	In teachers' institutes and comparable educational institutions	Secondary and in- complete secondary	Total number of teachers (without other professions—in thousands)	Higher	In teachers' institutes and comparable educational institutions	Secondary and in- complete secondary
Russian language and literature: In schools with instruction in the Russian language. In schools with instruction in non-Russian languages. In schools with instruction in non-Russian languages. Maternal language (except for Russian) and literature. History. Histor	\$2828 25 88888888888888888888888888888888	8888884688448 847-1-7-61-7088	28 28 28 28 28 28 28 28 28 28 28 28 28 2	0.000 8.85.00 1.00 0.00 0.00 0.00 0.00 0.00 0.00	8815888445448	68.88.89.88.88.88.88.88.88.88.88.88.88.88	ಲ್ಪ್ರವ್ಯದ್ಯಪ್ಷಡ್ಟ್ವೆಗಳು ವ್ಯವ್ಯಾಥ್ಯಪ್ರಡ್ಟ್ವೆಗಳು	ಬಿ4ಬಿಗ್ಗಗಬಗಳ4¢ಡ ಗ೦೦4೦ರಲ∞ಜರ್ಬಬಟ

Table X-11.—The number of women teachers in elementary, 7-year, 8-year, and secondary schools, U.S.S.R., selected years, 1950-51 and 1963-64 (of the Ministries of Education and the Ministry of Transportation)

[At the beginning of the school year]

	The number of teachers without other positions (in thousands)	The number that are women	Percentage of women of the total number of teachers and directors of schools
All teachers (including directors of schools): 1950-51	1, 425	999	70
	2, 119	1, 459	69
Of which: Directors of elementary schools. Directors of 8-year schools. Directors of scoondary schools. Directors of studies of 8-year schools. Directors of studies of secondary schools.	101	73	72
	64	15	24
	28	6	20
	48	27	56
	55	24	44
Teachers (except for teachers-directors of schools): Classes 1 to 4. Classes 5 to 8. Classes 9 to 11. Teachers of music, singing, drawing (art), drafting, physical education and manual training	647 728 206 242	561 546 138	87 75 67

Table X-12.—Admissions to secondary specialized educational instructions by type of instruction, and admissions and graduations by branch group of educational institution, U.S.S.R., 1952 and 1958-63

[Thousands of students]

	1952	1958	1959	1960	1961	1962	1963
Admissions: Type of instruction: Day division.	412.0	363. 7	378. 4	415.0	451. 3	466. 3	500, 8
Evening division	28. 1 59. 9	75. 2 145. 2	98. 7 179. 1	130.0 224.3	139. 1 280. 7	141. 4 297. 9	146. 1 308. 1
tions, total	500.0	584.1	650.2	769.3	871.1	905.6	955.0
Industry and construction Transport and conmunications Agriculture Economics and law Health, physical culture, and sports Education Art and cinematography	35.7 58.0	221. 5 46. 6 108. 4 70. 3 67. 5 58. 5 11. 3	271. 2 51. 6 111. 3 77. 0 70. 5 61. 9 12. 7	322. 2 60. 8 120. 3 92. 7 85. 5 72. 1 15. 7	347. 6 68. 4 134. 7 117. 2 92. 3 91. 4 19. 5	360. 0 73. 0 146. 3 122. 0 91. 3 92. 9 20. 1	385. 1 77. 6 151. 0 124. 3 102. 1 94. 4 20. 5
Graduations: Branch groups of educational institutions, total	280.6	551.2	527.9	483. 5	420. 5	452, 2	510. 7
Industry and construction Transport and communications. Agriculture Economics and law Health, physical culture, and sports Education Art and cinematography	47. 0 23. 7 41. 0 70. 2	219. 7 42. 2 96. 3 45. 2 77. 2 63. 4 7. 2	224. 8 40. 5 89. 5 50. 3 71. 0 45. 1 7. 2	189. 9 36. 6 80. 2 56. 5 64. 2 48. 9 7. 2	170. 0 37. 1 77. 7 56. 2 31. 3 48. 6 7. 7	163.6 34.6 74.8 59.8 58.6 51.9 8.9	202. 9 35. 3 64. 6 67. 9 71. 8 58. 0 10. 2

Table X-13.—Graduations of specialists from higher and secondary specialized institutions, according to type of instruction, U.S.S.R., selected years, 1940, 1950, 1958, and 1960-63

/In thousands]

	1940	19 50	1958	1960	1962	1963
Graduations from higher educational institu- tions	126, 1	176, 9	290, 8	343, 3	316. 6	331, 7
Type of instruction: Daytime divisions. Eventing divisions. Correspondence instruction.	97. 8 4. 4 23. 9	145. 9 2. 0 29. 0	205. 4 8. 7 76. 7	228. 7 15. 4 99. 2	195, 1 22, 5 99, 0	200, 7 25, 9 105, 1
Graduations from middle specialized educational institutions	236, 8	313. 7	551, 2	483, 5	452, 2	510.7
Type of instruction: Daytime divisions. Evening divisions. Correspondence instruction.	205, 3 2, 5 29, 0	279. 0 4. 7 30. 0	463, 2 37, 5 50, 5	348. 1 57. 9 77. 5	290, 3 56, 8 105, 1	288, 8 91, 0 130, 9

Table X-14.—The number of graduations of specialists from higher and secondary specialized educational institutions, U.S.S.R., 1918-63
[In thousands]

	Graduations from highe institution	of specialists er educational s	from secon	of specialists adary special- ational fusti-
	Total	A verage annual number	Total	Average annual number
1918-28 1929-32 1933-37 1938-40 1941-45 1946-50 1956-55 1956-58	349 170 379 328 302 652 1, 121 817 1, 655	30. 9 42. 5 74. 0 109. 3 60. 4 130. 4 224. 8 272. 4 331. 0	198 291 623 678 540 1, 278 1, 560 1, 565 2, 404	18. 0 72. 8 124. 6 226. 0 108. 0 255. 7 311. 9 521. 8 480. 8
Total	5, 755		9, 137	

Table X-15.—Graduations of specialists from secondary specialized educational institutions, by groups of specialities, U.S.S.R., selected years, 1950, 1958, and 1960-63

	1950	1958	1960	1962	1963
Total	318.7	551.0	483. 5	452. 2	510. 7
GROUPS OF SPECIALTIES					
Geology and prospecting for mineral resources. Mining of mineral resources. Power engineering. Metallurgy. Machine building and instrument making. Belectro-machine building and electro-instrument making. Radiotechnics and communication. Chemical technology. Timber engineering, and technology of wood, cellulose and paper. Technology of food products. Technology of consumer goods. Construction. Geodesy and eartography. Hydrology and moteorology. Agriculture. Transportation. Economics. I eaith and physical culture. Education. Education.	7.7 4.9 26.6 2.4 5.0 4.4 4.0 14.6 11.1 26.4 2.4 2.4 4.0	5. 2 15. 8 21. 0 6. 8 70. 8 13. 9 10. 6 8. 7 10. 3 8. 9 53. 3 2. 5 1. 4 79. 8 23. 7 64. 0 58. 9 6. 8	2. 5 14. 1 5. 6 74. 9 6. 8 12. 5 7. 0 9. 0 9. 0 9. 2 1. 5 1. 4 67. 2 21. 3 71. 6 44. 4 47. 9 7. 6	2. 2 8. 3 16. 0 4. 1 59. 9 7. 2 13. 0 12. 9 9. 1 27. 0 1. 2 1. 4 61. 6 20. 0 76. 0 58. 9 50. 3 10. 6	2. 1 7. 0 21. 7 5. 9 70. 8 12. 2 16. 6 11. 6 5. 5 13. 9 15. 8 28. 6 20. 3 87. 2 72. 1 56. 8 3

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Table X-16.—Total state budget expenditures and expenditures budgeted for enlightenment, U.S.S.R., 1955 and 1958-63

[Data¶for 1955-60 are from Narodnoe khoziaistvo v 1960 godu (National Economy in 1960), statistical year-book published by the Central Statistical Administration attached to the U.S.S.R. Council of Ministers, Moscow, 1961. Pp. 846 847. The 1961-62 data, from the year-books published in 1962 and 1963 and data for 1963 are from the year-book published in 1965, pp. 654-657]

Budget category		Millions of rubles						
	1955	1958	1959	1960	1961	1962	1963	
Total State budget expenditures	54,000	64,300	70, 400	73, 100	76,300	82, 200	87,000	
Percent	100	100	100	100	100	100	100	
Total social-cultural expenditures	14, 717	21, 418	23, 118	24, 937	27, 187	28, 967	30, 967	
Percent	27	33	33	34	36	36	36	
Enlightenment ¹ total (included in preceding line) Percent	6, 894 13	3, 603 13	9, 412 13	10,323	11,349 15	12, 4 35 15	13, 707 15	
General education and education of children and youth, and general adult education, total. (a) Kindergartens (b) Children's homes and boarding schools for deaf and bland	3,354	3,979	4, 435	5, 002	5, 606	6, 208	² 6, 730	
	361	525	600	697	824	1, 001	1, 194	
children (c) General education schools of all types 2. 2. Cultural-educational work	286	306	315	305	290	291	304	
	2,520	2,779	2,998	3,262	3,599	3,913	4,824	
	253	318	328	333	336	327	305	
	2,326	2,352	2,389	2,420	2,532	2,723	2,888	
(a) Higher cducational institu- tions (b) Technicums and schools for training of cadres of second-	1,021	1., 141	1, 152	1, 167	1, 208	1, 286	1,365	
ary (ualification (c) Trade and railroad schools (d) Factory schools (e) Technical schools. (f) [Other] factory, trade, and rechanical schools, schools for	592 165 90 40	541 187 68 69	523 220 33 73	527 262 24 83	552 312 90	585 337 91	634 369 66	
mechanization of agriculture 4. Science 5. Press 6. Art and radio	305	230	277	236	252	325	350	
	825	1,696	2,004	2,339	2,679	3,006	4 3, 477	
	62	88	88	74	75	68	65	
	74	129	122	105	90	92	242	

¹ The Russian word "prosveshchenie" is translated here as "enlightenment." Soviet sources translate it as "education," leading to a conceptual error and overstatement of the total education budget.

² Individual components do not add up to subtotal.

³ Data given in 1963 yearbook (p. 567) for years 1958, 1360, and 1962, respectively, are 2,890, 3,674, and 4.530.

^{4,530.} Estimated residual figure.

Table X-17.—Number of higher educational institutions and enrollment, U.S.S.R., 1914-15 and 1922-23 to 1963-64

School year	Number of educa- tional institu- tions	Thousands of students	School year	Number of educa- tional institu- tions	Thousands of students
1914-15 (current boundaries). 1922-23	148 148 152 190 579 701 832 714 688 718 700 683 750	127, 4 216, 7 208, 3 169, 5 167, 0 168, 0 168, 5 176, 6 204, 2 287, 9 405, 9 405, 9 504, 4 458, 3 527, 3 563, 5 542, 0 610, 0 811, 7	1945-46 1946-47 1947-48 1948-49 1949-50 1950-51 1951-52 1962-53 1952-55 1955-56 1955-56 1956-57 1957-58 1958-60 1959-60 1060-61 1061-62 1062-63 1963-64	807 823 864 880 887 827 818 708 765 767 763 769 731 739	

Table X-18.—Enrollment in higher education, by type of instruction, U.S.S.R., 1940-64

	Thousands of students					
School year	Total In day In e			In corre- spondence		
1040-41	871.7 983.6 1, 032.1 1, 132.1 1, 247.4 1, 356.1 1, 652.0 2, 001.0 2, 039.1 2, 178.9 2, 227.0 2, 395.5 2, 2640.4 2, 944.0	558. 1 525. 2 636. 2 600. 4 716. 0 755. 9 817. 9 836. 1 933. 6 994. 4 1, 084. 1 1, 177. 1 1, 103. 1 1, 179. 6 1, 145. 8 1, 165. 5 1, 204. 0 1, 257. 0 1, 257. 0 1, 383. 0	26. 9 14. 0 13. 3 15. 2 18. 4 22. 3 27. 2 32. 1 37. 9 48. 3 62. 4 80. 9 100. 8 127. 2 153. 3 195. 8 244. 9 307. 0 374. 0 439. 0	226. 7 101. 0 222. 2 258. 0 297. 7 358. 9 402. 3 437. 9 470. 0 510. 3 584. 0 639. 1 723. 1 778. 8 846. 0 925. 4 995. 1 1, 129. 0 1, 283. 0 1, 439. 0		

education, by groups of specialities, U.S.S.R., selected years, 1950-64		1963-64 (rounded)	090 6	488.48.44.48.48.49.49.49.49.49.49.49.49.49.49.49.49.49.
		1962-63 (rounded)		2, 200 2, 200
		1961–62 (rounded)		2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
	ercent of—	1955-56	128	8 8 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	1960-61 as percent of-	1950-51	192	131 145 145 145 132 132 134 134 135 136 136 136 136 136 136 136 136 136 136
		19-09-61	2, 395, 545	21.2% 24.2% 25.2%
	Thousands of students	1959-60	2, 266, 979	21.829 89.924 89.924 80.924 80.925
		1955-56	1,866,994	22, 23, 23, 24, 24, 24, 24, 24, 24, 24, 24, 24, 24
r educatio		1950-51	1, 247, 382	2. 3. 3. 3. 4. 3. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5.
1ABLE A-19.—Enrollment in higher	Groups of specialities		All specialties, total	Mining of mineral resources Moning of mineral resources Power engineering Machine of mineral resources Metallurgy Machine building and instrument making Redictor-machine building and electro-instrument making Thinber engineering and technology of wood; cellulose, and paper. Tehnology of consumer goods. Construction. Geodesy and cartography Hydology and meleorology Agriculture and corestry Realism of physical cutture Economics Law Realism in universities Specialties in pedagogical and library institutes Art.

16 times.

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Table X-20.—Persons with higher and secondary (complete and incomplete) education, U.S.S.R., selected years, 1959 and 1964

•	Tn	mill	ional

	1959	1964
Persons with education:	3.8	K 2
Complete higher education	1.7	5.3 2.2
Uncompleted higher education. Complete secondary specialized education in technicums and comparable institutions. Complete secondary general education. Incomplete secondary deducation (those who have completed the 7-year	7.9 9.9	10.1 11.5
school as well as these who have not completed secondary education, i.e. more than the 7-year school)	35. 4	43.3
Total of those with higher and secondary education (complete and incomplete)	58.7	72, 4

Table X-21.—Persons with higher and secondary education (complete and incomplete) per 1,000 inhabitants, U.S.S.R., selected years, 1939, 1959, and 1964

	Por 1,000	of total nu nhabitants	imbor of	Per 1,0	00 of all wo nhabitants	orking
	1939	1950	At the begin- ning of 1964	1939	19 59	At the begin- ning of 1964
Persons with education: Completed higher education.	6	18	24	13	33	43
Uncompleted higher, secondary, and incomplete secondary	77	263	296	110	400	458
Total with higher and secondary education (complete and incomplete)	83	281	320	123	433	501

Note.—Until the revolution, according to the population census of 1897, illiteracy from the age of 9 and above was 76 percent. Presently the U.S.S.R. is essentially a completely literate country.

At the beginning of 1964, 32 percent of the total population possessed a higher and secondary education (complete and incomplete); 50 percent of the working population had bigher and secondary (complete and incomplete) education. Of that number: about 44 percent of the workers were included; 26 percent of the collective farmers were included; and 92 percent of the specialists and salaried employees were included.

Table X-22.—Women students as percent of total enrollment in higher education, by main areas, U.S.S.R., selected years, 1927-64

Main area	1927-28	1940-41	1945-46	1950-51	1955-56	1960-61	1961-62	1962-63	1963-64
Number of women students (in thousands). Women as percent of total enrollment. Women as percent of total students in:	47 28	471 68	562 77	661 58	971 52	1,042 43	1,109 42	1, 236 42	43
Industry, construction, transport, and communications	13 17 21	40 48 64	60 79 77	80 89 57	35 39 67	30 27 49	28 26	28 25	29 25
Health, physical culture, and sport Education, art, and cinematography	52 40	74 66	90 84	65 71	69 71	56 63	55 62	54 62	53 63

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Table X-23.—Admissions to higher educational institutions, by type of instruction, U.S.S.R.: 1949-41, and 1945-46 to 1963-64

		Thousands	of students	
Year	Total	Day division	Evening division	Correspond- ence instruc- tion
1940-41	263, 4	154.9	6, 6	101.9
1945-46	285. 7	171.6	4. 9	109.3
1946-47	327. 2	201.6	4.4	121.2
1947–48	281.1	189.5	4.7	86. 9
1948-49	291.8	187. 2	6. 4	98. 2
1949–50	324. 3	203.3	6. 9	114.1
1950-51	349, 1	228.4	9.1	111.0
1951-52	374. 4	245. 2	10.3	118.9
1952-53	287, 3	249.0	11.8	126.
1953-54	430, 8	265.1	16.6	140.
1954-55	469.0	276. 2	22.9	169. 9
955-56	46),4	257. 2	28.4	175.8
956-57	458.7	231. 2	32.6	194. 9
957-58	438, 3	219.7	34.7	183.9
958-59	455. 9	215.5	42.2	198.5
959-60	511.7	227.1	63. 5	221. 1
960-61	593, 1	257.9	77. 0	258. 2
961-62	069, 9	279.4	93. 1	294, 4
962-63	727.5	312.1	102. 3	313. 1
963-64	772.4	3 39. 0	108.2	352. 2

Table X-24.—Number and percent of admissions to higher educational institutions by branch group of institutions, U.S.S.R., selected years, 1940-64

[Admissions in thousands]

Branch group	1940-41	1945–46	1950-51	1955-56	1959-60	1960–61	1961–62	1962-63	1963-64
Total admissions Industry and construction Transport and communications Agriculture Economics and law Health, physical culture, and sport Education Art and cinematography	263.4 45.4 8.3 11.9 13.6 23.0 159.0 2.2	285. 7 52. 5 9. 5 17. 9 20. 3 26. 7 155. 0 3. 8	349.1 74.0 12.0 28.5 25.5 23.7 182.6 2.8	461. 4 144. 8 29. 8 51. 1 28. 5 32. 3 172. 0 2. 9	511. 7 185. 6 32, 2 57. 3 40. 1 33. 2 159. 0 4. 3	593. 1 225. 4 34. 1 62. 7 43. 9 36. 8 185. 1 5. 3	245, 8 37, 6 71, 9 50, 7 38, 9 216, 0 6, 0	727. 5 270. 8 40. 0 81. 3 47. 3 40. 8 241. 0 6. 3	772. 4 287. 3 42. 5 86. 5 50. 2 43. 3 255. 7 6. 9

Table X-25.—Number and percent of graduations of specialists from higher educational institutions, by branch group, U.S.S.R., selected years, 1940-63

[Graduations in thousands]

Branch group	1940	1945	1950	1955	1959	1900	1961	1962	1963
Total graduations	126. 1	54.6	176. 9	245.8	338.0	343.3	325. 5	316.6	331. 7
Industry and construction	24. 2 5. 9 10. 3 5. 7 17. 4 61. 6 1. 0	8.5 1.6 2.9 2.4 6.6 32.0	30. 0 0. 1 12. 7 11. 4 20. 0 94. 1 2. 6	56. 4 9. 5 24. 1 15. 6 16. 9 120. 8 2. 5	92.3 16.3 34.5 25.0 29.5 138.0 2.4	95. 2 16. 1 34. 7 25. 0 30. 7 139. 1 2. 5	97. 1 17. 0 31. 8 24. 7 30. 6 121. 8 2. 5	99. 7 15. 9 30. 8 24. 1 30. 3 113. 2 2. 6	104. 4 16. 7 31. 4 24. 8 31. 5 119. 9 3. 0

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Table X-26.—Graduations of specialists from higher educational institutions by groups of specialties, U.S.S.R., selected years, 1950-63

Group of specialties	N	umber o	f specialt	ies	1960 percen		1961	1962	1963
Group of specimens	1950	1955	1959	1060	1950	1955			
Total	176, 900	245, 846	337, 969	343, 300	193	139	325, 500	316, 600	331, 70
Geology and prospecting for mineral resources Mining of mineral resources Power engineering Metallurgy	1,700 1,400 2,400 1,400	3, 070 5, 290 4, 957 2, 650	5, 351 6, 230 8, 441 4, 005	3, 900 5, 300 8, 400 3, 000	226 388 354 274	98 99 170 146	3, 500 4, 000 8, 400 3, 900	2, 900 4, 000 7, 300 3, 800	2, 40 3, 80 6, 30 3, 80
Machine building and instrument making Electro-machine building	9, 100	15, 736	28,349	30, 600	334	193	32, 400	34, 100	3 5, 80
and electro-instrument making	1,400	2, 981	6,833	8, 100	(1)	273	8,500	11,000	14, 30
Radiotechnics and com- municationsChemical technology Timber engineering and	1, 400 2, 600	2, 950 4, 954	6, 074 5, 404	6, 300 5, 700	441 220	214 115	7, 200 5, 600	8, 100 6, 000	9, 40 6, 80
technology of wood, cellu- lose, and paper Technology of food products_	700 2, 300	1, 885 1, 878	3, 497 3, 094	3, 700 3, 500	(2) 148	198 181	3, 100 3, 600	2, 700 3, 400	2, 70 3, 70
Technology of consumer goods	12, 900 3, 100 10, 100 5, 700 20, 700 12, 300	1, 669 9, 440 540 628 24, 563 4, 236 10, 138 8, 126 16, 943 15, 500	3, 068 17, 335 466 657 33, 908 6, 275 30, 718 6, 263 29, 803 30, 200	3, 100 17, 700 600 700 34, 500 0, 600 30, 700 6, 000 29, 000	251 364 208 176 267 216 301 107 144 242	186 188 113 106 140 156 188 74 177 102	3,300 17,900 500 700 31,500 6,900 31,700 5,600 30,800 28,400	3, 300 17, 600 700 30, 600 6, 600 30, 300 5, 100 30, 600 25, 900 79, 100	3, 30 17, 30 70 30, 30 7, 50 30, 50 6, 10 31, 90 24, 80 86, 50
and library institutes Art	78, 500 2, 400	98, 240 2, 491	99, 656 2, 342	101,000 2,500	129 106	10 3 101	84, 800 2, 600	2, 800	3, 1

¹6 times. ²5 times.

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Table X-27.—Enrollments of aspirants (graduate students), by type of instruction, U.S.S.R., selected years, 1940-63

Type of instruction		Tumber o	of aspirar	ıts		s perce ltiple o	ent (or of)—	1961	1962	1963
	1940	1950	1955	1960	1940	1950	1955		1002	1000
'Total	16, 863	21, 995	29, 362	36,754	218	168	125	47, 560	61,809	73, 105
In higher educational institutions	13, 169	12,487	16, 774	20.406	155	163	122	27, 063	36, 334	43, 297
Training with inter- ruption from pro- duction (full time) Training without in- terruption from pro-	1 1, 506	11,199	13, 212	13, 463	177	120	102	17,367	23, 130	27, 583
duction (part time)	1, 663	1, 288	3, 562	6, 943	(1)	(²)	195	9, 699	13, 204	15, 714
In scientific organiza- tions	3, 694	9,418	12, 588	16,348	(3)	174	130	20, 494	25, 475	29, 808
Training with inter- ruption from produc- tion (full time) Training without in- terruption from pro-	2, 919	6, 944	8, 145	9, 515	(4)	137	117	11, 30 8	13, 584	15,312
duction (part time)	775	2,474	4, 443	6,833	(8)	276	164	9,186	11,891	14, 496

Table X-28.—Number of graduations of aspirants (graduate students), by type of instruction, U.S.S.R., selected years, 1940-63

		Numbe	r of graduation	s by type of in	struction
Years	Total		er educa- stitutions		entific zations
		With interruption from production	Without interruption front production	With interruption from production	Without interruption from production
1940	1, 978 1, 366 16, 295 31, 475 8, 453 8, 250 6, 802 5, 603 5, 517 6, 921 8, 515 11, 660	1, 411 1, 092 10, 087 18, 128 4, 805 4, 288 3, 119 2, 585 2, 407 3, 145 3, 835 6, 035	61 108 733 1,371 496 663 707 745 613 650 886 1,819	454 129 4,767 9,887 2,408 2,523 2,053 1,504 1,718 2,262 2,689 3,210	52 37 708 2, 089 744 786 92: 76: 77 86 1, 1' 1, 5'

^{1 4.2} times. 2 5.4 times. 3 4.4 times. 4 3.3 times. 4 8.8 times.

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	1950 1960 as percent (or 1961 1962	1950		0961	1960 as p	ercent (or	1961	19	1962	1963]	/1V I
					multipl	multiple) of 1950		ì	!		ŧ	ħ
Branch of study	Number of aspi- rants	Number in higher educational institutions	Number of aspi- rants	Number in higher educational institutions	Number of aspi- rants	Number in higher educational institutions	Number of aspi- rants	Number of aspi- rants	Percent of total	Number of aspi- rants	Percent of total	COTIONIC
Total	21, 905	12, 487	36,754	20,406	168	163	47, 500	61,809	100	73, 105	100	, 11
Physicomathematics. Chemistry Biology Biology Geology-minerology Technics Agriculture and veterinary History and pithosophy Economy Prindology Geography Law Medicine and pharmacy Art	2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.	2, 233 2, 233 1, 1, 235 1, 1, 1, 235 1, 1, 1, 235 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2	2, 435 1, 1, 1313 13, 336 13, 336 1, 1, 1, 1313 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1	27. 0.1.1.1. 28.88.88.98.98.88.88.88.88.88.88.88.88.88	(5) 182 280 280 280 280 282 282 283 284 285 288 288 288 288 288 288 288 288 288	6) 2828 2828 2828 2828 2828 2828 2828 28	4.8.8.9.9.9.9.9.9.9.9.9.9.9.9.9.9.9.9.9.	28.20.20.40.40.10.10.10.10.10.10.10.10.10.10.10.10.10	いららまなでよれてまましまられる ののまてきてのらものますのある	7.444017.050.02. 1.4 24.000.050.050.050.050.050.050.050.050.05	್ಷ ವ್ಯಹ್ಜಿಲೈಹಣ್ಗಳ-1440-1. ಹಾಧಿಯ4ಹ-10ಸ್ಥರ್ಯವಾಣ್ಯ	ADICATORS FOR THE

13.5 times

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Table X-30.—The number of scientific workers, U.S.S.R., selected years, 1950, 1958, and 1960–63

[At the end of the year]

	1950	1958	1960	1962	1963
Total number of scientific workers (thousands) In scientific institutions	70. 5	284. 0 141. 0 135. 7	354. 2 200. 1 146. 9	524. 5 209. 0 179. 5	566, 0 326, 8 196, 8

Table X-31.—The composition of scientific workers, according to degrees and rank (or title), U.S.S.R., selected years, 1950, 1958 and 1960-63

[At the end of the year]

	1950	1958	1960	1962	1963
Total number of scientific workers (thousands) Those with degrees:	162. 5	284, 0	354. 2	524, 5	566. 0
Doctors of sciences Candidates of sciences Those with academic rank:	8. 3 45. 5	10. 3 90. 0	10, 9 98. 3	11. 9 108. 7	12. 7 115. 2
Academicians, corresponding members, pro- fessors. Docents. Senior scientific collaborators. Junior scientific collaborators and assistants.	8. 9 21. 8 11. 4 19. 6	9, 6 32, 7 17, 2 23, 6	9. 9 36. 2 20. 3 26. 7	11. 0 40. 6 23. 8 45. 0	11, 4 42, 9 25, 8 47, 9

Table X-32.—Distribution of scientific workers by branches of specialization, $U.S.S.R.,\ 1963$

[At the end of 1963]

	Number of	The number with academic degrees		
	scientific workers	Doctors of Sciences	Candidates of Sciences	
Total	565, 958	12,744	115, 240	
l'ype of specialty: Plysics-mathematics. Clemistry Blology. Geology mineralogy Technical sciences. Agriculture and veterinary science. History and philosophy Economics. Philology. Geography. Jurisprudence. Pedagogy. Medicine and pharmacy. Art. Architecture.	34, 556 7, 922	1, 331 771 1, 468 682 2, 618 940 603 368 390 212 128 109 2, 906 75	9, 566 6, 200 9, 200 3, 699 29, 811 8, 460 9, 767 6, 222 6, 000 1, 799 1, 488 2, 722 16, 233	

Table X-33.—The composition of women among scientific workers, U.S.S.R. selected years, 1950, 1958, and 1960-63

[At the end of the year]

	- 1950	1958	1960	1962	1963
The number of women scientific workers (thousands)	59. 0	101. 4	128. 7	177. 7	204. 8
	16. 6	23. 7	26. 3	38. 0	41. 4
	. 5	. 7	. 7	.9	. 9
	3. 2	5. 5	6. 2	7. 3	8. 0
	3. 5	5. 0	5. 8	7. 1	7. 6
	9. 4	12. 5	13. 6	22. 7	24. 9

CHAPTER XI

URBAN FACILITIES AND HOUSING

At the beginning of 1964 per capita living space in the Soviet Union amounted to 6.18 square meters, i.e., 68.7 percent of the official "hygienic norm" of 9 square meters. At least half of all urban families continue to live in apartments in which they are required to share in the use of the kitchen as well as the other household facilities.

The basic reason for the continued condition of shortage of dwelling space is the wholly inadequate level of investment in new housing. In addition, even the modest official appropriations for apartment build-

ing of the past have been systematically underfulfilled.

On the whole, the daily needs of the Soviet city dweller for basic services are met to a limited extent. The urban transportation systematically underfulfilled. tems are inadequate in terms of facilities and operate rather unsatisfactorily. There are not nearly enough laundries. There is not enough electricity for home use, and a sizable proportion of the city streets remain unpaved.

Restaurants, eafeterias, and other eating places are not numerous enough and are generally known to provide unsatisfactory service. Shops and establishments providing such services as shoe repair, cleaning, and mending clothes and household articles, can be found in large cities only, and even then are scarce in number and, as a rule, poorly equipped to cope efficiently with their unusually heavy workload.

Table XI-1.—Population growth of 7 Soviet cities following approval of resolution to prohibit building of new enterprises

	l'opula	tion (in thou	Increase over 1931 and 1939		
Citios			Jan. 1, 1963, estimate	Number (thou- sands)	Percent
	1931	1939	CSUMMANO		
Moscow	2,800 2,228		6, 354 3, 552	3, 554 1, 324	119.8 59.4
LeningradKlev	2, 220	847	1,248	401	47. 3
Khar'kovRostov-na-Donu		833 510 644 423	1,006 689 1,042 869	173 179 398 446	20, 8 35, 0 61, 8 105, 4

Sources: L. M. Kaganovich, Za sotsialisticheskuyu rekonstruktsiyu Moskvy i gorodov SSSR (For Socialist Reconstruction of Moscow and the Cities of the U.S.S.R.), Moscow-Leningrad, 1931, p. 69, Narodnove khozyaistvo SSSR v 1962 godu, Statisticheskiy Ezhegodnik (National Economy of the U.S.S.K. in 1962, Statistical Yearbook), Moscow, 1963, p. 25.

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Table XI-2.—Actual city population as planned for 1975 and as reported for 1963

Cities	Planned population in 1975	Actual pop- ulation in the begin- ning of 1963
Gor'ky	840, 000 800, 000 850, 000 700, 000 450, 000	1, 042, 000 1, 029, 000 990, 000 901, 000 644, 000

Sources: Ekonomika Stroitel'stva (Economics of Construction), No. 3, 1960, p. 30; Narodnoye Khozyaistvo SSSR v 1962 godu, Statisticheskty Ezkegodnik (National Economy of the U.S.S.R. in 1962, Statistical Yearbook), Moscow, 1963, p. 25.

Table XI-3.—Capital investment in the national economy of the U.S.S.R. and in the public housing sector, 1918-64

[Million rubles in comparable prices. For 1961-64 in billion new rubles in current prices]

Period	Total investment in national economy	Investment in housing construction	Percentage
1918-28 (without 4th quarter of 1928) 1st 5-year plan (1929-32) 2d 5-year plan (1933-37) 3½ years of 3d 5-year plan. From July 1, 1941, to Jan. 1, 1946. 4th 5-year plan (1946-50) 5th 5-year plan (1951-55) 1956-40. 1961 (plan) 1962 (plan) 1963 (plan) 1964 (plan)	6, 716 15, 170 15, 101 14, 548 34, 875 67, 187 123, 416	371 788 1, 551 1, 907 1, 128 4, 409 10, 448 22, 794 5, 8 5, 1 5, 2 1 4, 4	22, 2 11, 7 10, 2 12, 6 7, 8 15, 6 18, 5 19, 7 16, 4 15, 5 12, 0

 $^{^{\}rm 1}$ For housing construction in 1964 and 1965 was allocated 8,800,000,000 rubles.

Sources: Narodnope Khozyaistvo S.S.R. v 1980 godu, Statistichevkiy Ezhegodnik (National Economy of the U.S.S.R. in 1980, Statistical Yearbook), Moscow, 1901, pp. 594-595; O gosudarstvennom Byudzhete SSSR na 1981 god i ob ispolnenii gosudarstvennogo Byudzheta S.S.S.R. & 1989 god (U.S.S.R. State Budget for 1981 and the Fulfillment of the State Budget in 1959), Moscow, 1961, pp. 16, 25; Pravda, Dec. 7, 1961, pp. 4, 5, Dec. 11, 1962, p. 5-6, Dec. 17, 1963, p. 5, 6.

Table XI-4.-5-year plan goals for housing construction in the public sector and actual fulfillment. 1928-63

[In millions of square meters of living space 1]

Period	Plannod	Actual	Percent of
	goals	fulfillment	fulfillment
1st 5-year plan 2d 5-year plan 3d 5-year plan 3d 5-year plan 4th 5-year plan 5th 5-year plan 5th 5-year plan 1956-60 1961 2 1962 2 1963 2	42. 4	23. 5	55. 4
	64. 0	26. 8	41. 9
	24. 3	20. 7	85. 2
	84. 4	65. 0	77. 0
	68. 3	73. 4	107. 9
	139. 7	145. 6	104. 2
	47. 7	36. 7	77. 9
	48. 5	38. 7	79. 8
	47. 4	38. 6	81. 4

¹¹ square meter = 10.75 square feet. In the Soviet Union the basic index for evaluating the housing conditions is the per capita amount of living space available. The living space (zhilaya ploshchad') of an apartment includes living room and bedrooms and comprises 65 percent of the total floorspace. Non-living space (nezhilaya ploshchad') takes in the area of kitcheas, entrance halis, bathrooms, corridors, pentries, and other service areas, even if they are used for living purpose. Living space and nonliving space together form the total floorspace (obshchaya ploshchad') of a dwelling.

2 Plan for private sector in 1961, 1962, and 1963 is assumed in the size of actual fulfillment, i.e., 15.4 million square meters living space in 1961, 13.6 million square meters in 1962, and 11.7 million square meters in 1963.

Sources: The Housing Problem in the Soviet Union, by Timothy Sosnovy, Research Program on the U.S.S.R., New York, 1954, p. 66; BSE, 2d od., vol. 35, Moscow, 1955 p. 411; Narodnoye khozyaxtvo SSSR v 1960 godu, Statisticheskiy Ezhegodnik (National Economy of the U.S.S.R. in 1960, Statistical Yearbook) Moscow, 1961, p. 611; Ogosnadarstvennom byudzhete SSSR na 1961 god 4 ob ispoinenti byudzheta SSSR 2a 1959 god (U.S.S.R. State Budget for 1961 and the Fulfillment of the State Budget in 1959), Moscow, 1964, p. 25. Pravda, Dec. 7, 1901, p. 3., Dec. 11, 1002, p. 3; S.S.S.R. v istifak u 1963 godu, Kratkiy Statisticheskiy sbornik (U.S.S.R. in Figures for 1963, Brief Statistical Collection), Moscow, 1964, p. 195.

Table XI-5.—Housing fund in the urban communities of the U.S.S.R. at the end of year, 1926-63

[In millions of square meters of floor space]

Sectors	1926	1940	1950	1955	1956	1957	1958	1959	1969	1961	1962	1963
Total Housing Fund_ Including: Public soctor Percent Private sector Percent	216 103 47. 7 113 52. 3	421 267 63. 4 154 36. 6	513 340 66. 3 173 33. 7	649 432 67. 5 208 32. 5	668 453 67. 8 215 32. 2	723 486 67. 2 237 32. 8	832 500 60.1 332 39.9	896 541 60. 4 355 39. 6	958 583 60, 9 375 39, 1	1,017 620 61.6 391 38.4	1,074 670 62,4 404 37,6	1,128 715 63.4 413 36.6

Sources: Narodnoye Khozyaistvo SSSR v 1956 godu, Statisticheskiy Ezhegodnik (National Economy of the U.S.S.R. in 1956, Statistical Yeurbook), Moscow, 1967, p. 177; Narodnoye Khozyaistvo SSSR v 1968, godu, Statisticheskiy Ezhegodnik (National Economy of the U.S.S.R. in 1958, Statistical Yeurbook), Moscow, 1969, p. 641; Narodnoye Khozyaistvo SSSR v 1962 godu, Statisticalsticheskiy Lebegodnik (National Economy of the U.S.S.R. in 1962, Statistical Yeurbook), Moscow, 1963, p. 499; SSSR v tstrakhv 1963 godu, Kratkiy Statisticheskiy Sbornik (U.S.S.R. in Figures for 1963, Brief Statistical Collection), Moscow, 1964, p. 197.

Table XI-6.—Urban population growth and living space per capita in the U.S.S.R., 1923-63

Years	Urban population	Urban hou of y	sing at end ear	Index of per	Per capita living space as percent of health norm of 9 square meters
	at end of year (mil- lion persons)	Total living space (million square meters)	Per capita living space (square meters)	capita living space	
19231926	21, 6 26, 3	139.1 153.8	6. 45	100. 0	71. 6
1940	1 63, 1	273.6	5, 85 4, 34	90. 7 67. 3	65. 0 48. 2
1950	73.0	333.4	4, 57	70.8	50. 8
1955	88.2	416, 0	4. 71	73. 0	52. 3
1956	91, 4 95, 6	434. 2 469. 9	4.75 4.92	73. 6	52, 8
1958.	2 100. 0	540.8	3 5, 40	76, 3 83, 7	54, 7 60, 0
1959	103.8	582.4	5, 61	87. 0	62, 3
1960	108.3	622.7	5, 75	89.1	63, 9
1961	. 111.8	661, 0	5, 91	91.6	65. 7
1962		698.1	6.06	93. 9	67.3
1909	. 118.6	733. 2	6.18	95. 8	68, 7

Source: T. Sosnovy, The Housing Problem in the Soviet Union, Research Program on the U.S.S.R., New York, 1954, p. 106. The author used official Soviet sources in estimating the living space and population figures in 1940, 1950, and 1955-63.

Table XI-7.—Per capita living space (square meters) in 27 large cities, 1926, 1956, and 1963

[Cities arranged in descending order by per capita living space in 1926]

Cities	1926 (end of year)	1956 (begin- ning of year)	1963 (begin- ning of y ear)	1963 as per- cent of 1926	Living space in 1963 as per- cent of health norm of 9 square meters
Leningrad. Odessa Kiev Tbilisi Minsk Pnepropetrovsk Ashikhabad Khar'kov Moscow Kazan'. Perm' Rostov-on-Don. Knibyshev Saratov Gor'ky Baku. Sverdlovsk Onisk 'Tashkent Volgograd Rrevan' Alma-Ata Dishambe Chelyabinsk Donetsk. Novosibirsk Friinze.	7. 40 7. 179 5. 93 5. 78 5. 5. 58 5. 5. 58 5. 5. 58 5. 5. 44 5. 5. 5. 38 5. 24 4. 4. 765 4. 4. 62 4. 4. 54 4. 4. 54 4. 4. 54 4. 4. 54	5. 18 5. 78 5. 78 5. 53 4. 197 4. 35 4. 35 4. 4. 35 4. 11 5. 193 4. 33 4. 76 4. 33 4. 76 4. 33 4. 35 5. 39 4. 33 4. 33 4. 33 4. 35 5. 39 4. 33 4. 33 4. 35 5. 39 4. 33 4. 35 5. 39 5. 39 6. 39 6. 39 6. 39 6. 39 6. 39 7. 4 6. 39 6. 39 7. 4 6. 30 7. 4 7. 4 8. 30 8. 3	6. 23 6. 57 7. 6. 99 4. 47 6. 44 6. 7. 22 7. 5. 5. 53 7. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5.	71. 3 88. 7 98. 4 86. 8 91. 7 108. 5 94. 1 109. 7 123. 4 99. 6 105. 0 107. 4 114. 8 124. 3 115. 8 111. 3 116. 4 117. 4 108. 9 111. 7 134. 8 160. 0 135. 7 124. 4	69. 2 73. 0 78. 2 65. 5 60. 4 70. 0 78. 0 61. 2 65. 7 62. 7 62. 7 63. 6 67. 7 61. 8 72. 0 65. 8 89. 1 72. 0 67. 9 80. 0 67. 9

Source: Soviet Studies, vol. XI, July 1959, No. 1, article, The Soviet Housing Situation Today, by Timothy Sosnovy, pp. 5-6; Narodnove Khozyaistvo SSSR v 1962 godu, Statisticheskiy Ezhegodnik (National Economy of the U.S.S.R. in 1962, Statistical Yearbook), Moscow, 1963, pp. 25, 26, 500.

¹ As of Jan. 1, 1940.

² As of Jan. 15, 1959.

³ It is important to note the significant increase in per capita living space between 1957 and 1958. This increase came about following the publication of the results of the January 1960 housing census which presented data for 1958. The comparison of current housing statistics with the newly release figures from the census showed that the total living space was underestimated by 33,100,000 square meters. The breakdown of this figure is interesting and informative, because private housing was underestimated by 48,700,000 square meters. In other words, there has been a tendency to report fulfillment and overfillment of state plans, while because of the so-called wild construction (dikoye strotted stvo) of private housing, this segment of the housing fund was unrecorded and underestimated.

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Table XI-8.—Apartment size in cities and workers' settlements, 1957-63

Indicators	1957	1958	1959	1960	1961	1962	1963
Floorspace constructed (in millions of square meters). Number of apartments (in thousands). Living space per apartment (in square meters).	52. 0	71. 2	80. 7	82. 8	80. 2	80.5	77. 4
	1, 413	1, 986	2, 237	2, 204	2, 201	2,143	2, 029
	23. 9	23. 3	23. 5	23. 5	23. 7	24.4	24. 8

Sources: Narodnoye khozyolstvo SSSR v. 1959 Godu, Statisticheskiy Ezhegodnik (National Economy of the U.S.S.R., in 1959, Statistical Yearbook), Moscow, 1960, p. 127; Narodnoye Khozyalstvo v 1960 godu * * *, Moscow, 1961 p. 205; Narodnoye Khozyalstvo v 1961 goru * * *, Moscow, 1962, p. 166; SSSR v tsitzakh v 1963 godu, Kraikiy statisticheskiy sbodnik (U.S.S. in Figures for 1963, Brief Statistical Collection), Moscow, 1964, pp. 63, 195.

Table XI-9.—Density of occupancy per room in urban communities of the U.S.S.R. in 1923, 1926, 1940, 1950, 1960, 1961, 1962, and 1963

Yoars	Persons per room	Years	Persons per room
1923	2. 60	1960	2. 78
	2. 71	1961	2. 72
	3. 46	1962	2. 59
	3. 43	1963	2. 55

Note.—In the United States in 1963, the per capita living space was nearly 19.5 square meters (210 square feet) and average density of occupancy per room including kitchen, was nearly 0.57 person. The author wishes to thank M. E. Everett Ashley (Director, statistical report staff, Housing and Home Finance Agency. Washington, for permission to use Department data.

Sources: The Housing Problem in the Soviet Union, by Timothy Sosnovy, New York, 1954, p. 276. For 1950, 1961, 1962, and 1963 our latest estimation.

Table XI-10.—Occupancy of small-size apartments in 1958-59

Number of family members	Living space per family in squaro moters	Living space per person in square meters
1	13. 7 18. 6	13. 7
<u>3</u>	18.6 22.0 26.4	9.3 7.3 6.6
6	29. 6 31. 0	5. 9 5. 2
7 and more	35. 6	5.1

Sources: D. L. Broner, Sovremennyye problemy zhilishchnogo khozyaistva, opyt ekonomiko-statisticheskogo analiza (Contemporary Problems in Housing Service, Experiment in Economic and Statistical Analysis), Moscow, 1961, p. 114.

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XI-11.—Urban population provided with municipal utilities, 1927, 1939, and 1956; for 1960, the percent of floor space provided w municipal utilities in public sector only i	[Millions of persons and percent]
TABLE]	

with

0001	percent of floor space pro-	with municipal ntilities in public sector	100.0 57.35 57.3 54.7 44.7 29.0 39.6
	lation	In Per-	99-1- 01-1
	fncluding populatic	With municipal ipal util-	9.6. 6.6. 6.6. 1.1.
1956	Includi of pr	Popu- lation	848484848484848484848484848488488888888
13		In per- cent	888 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
	With	munic- ipal util- ities	77.9 22.3 27.3 19.5 13.6 1.9
		Urban popu- lation	87.0 87.0 87.0 87.0 87.0
	lation nes	In per- cent	69 11.0 11.0
	ncluding population of private homes	With munic- ipal util- ities	2.6162
1939	Includi of pri	Popu- lation	20.20.20.20. 20.20.20.20. 20.20.20.20.20.20.20.20.20.20.20.20.20.2
19		In per- cent	84.8 38.7 28.1 11.1 (3) 7.5
	With	munic- ipal util- ities	47.6 21.7 15.8 6.2 (2) 7.2
		Urban popu- lation	56.1 56.1 56.1 56.1 56.1
	lation nes	In per- cent	21. 0 6. 5 2. 9 (*)
	ncluding population of private homes	With munic- ipal util- ities	2.9 .9 .4 (2)
1927	Includi of pr	Popu- lation	######################################
19	In per- cent		40.7 25.9 17.5 (3)
	With munic- ipal unit- ities		10.7 6.8 4.6 (2)
		Urban popu- lation	**************************************
Type of municipal utilities			Electric lighting Running water Plumbing Central heating Gas Bath Hot water

ekonomik i organizatii gorodskogo khozyistra (Course in the Economics and Organization of the Ubous Economy, 32 a revised and enlarged edition, Moscow, 1951, p. 169. D.L., Bronier, Soveneanyre problems and enlarged edition, Moscow, 1951, p. 160. D.L., Bronier, Contemporary Problems in Housing Service, Experiment in Economic and Satistical Analysis), Moscow, 1961, p. 263. Zhilishchmope Stroids fate (Housing Construction), No. 12, 1963, p. 11. In the United States, of \$8,300,000 apartments (urban and rural) had: rutuning water 851. Dercent, inked up with the sewage system 90 percent, gas 94 percent, electric lighting 100 percent, either hath or shower 81.2 percent, central heating 67 percent, but water 851.4 percent. ¹(1) Per capita living space is assumed to be the same for persons living in state and in private homes for the beginning of 1927, 1939, 1935, and 1961. (2) The correlation between the state and private housing fund for the beginning of 1939 as accepted as also applicable to the heginning of 1941. (3) The level of municipal utilities in the housing fund helonging to the cast Sovets of the R.S.F.S.R. at the beginning of 1939 are assumed for all state housing funds at the beginning of 1839. (4) The level of municipal utilities of private housing fund so the heginning of 1839 are assumed to apply to the heginning of 1966.

Sources: Vecquanaga perepis naseleniya 1998 goda (The All-Union Population Census 1926), Moscow 1929, vol. LIII, pp. 90-91, 330-331, 440-441; B.B., Veselovskiy, Kurs

CHAPTER XII

TRANSPORTATION

Table XII-1.—Growth of freight traffic in the U.S.S.R., by type of carrier, 1955, 1959-63, and 1965 plans

		•	•				
	All carriers	Rail- roads	Motor transport	Pipe- lines	Inland water	Mari- time	Air
-	F	Billion ton-	kilometers ¹				
1955 1959 1960 1960 1961 1962 1963 1965 (original plan) 2 1905 (revised plan)	1, 165. 0 1, 768. 4 1, 885. 7 1, 998. 2 2, 116. 9 2, 301. 7 2, 533 2, 686	970. 9 1, 429. 5 1, 504. 3 1, 566. 6 1, 646. 3 1, 749. 4 1, 825 4 1, 880	42. 5 87. 6 98. 5 105. 7 111. 9 119. 7 146 5 140	14.7 41.6 51.2 60.0 74.5 90.9 185 6 152	67.7 93.6 99.0 106.0 109.9 114.5 140	68.9 115.7 131.5 159.1 173.4 226.3 235 383	0. 252 . 439 . 563 . 802 . 89 . 91 \$ 1, 7
	Index (1955=100)						
1955 1959 1960 1961 1962 1963 1963 1965 (original plan) 1966 (revised plan)	100 152 162 172 182 198 217 231	100 147 155 161 170 180 188 194	206 232 249 263 282 344	100 283 348 408 507 618 1,259 1,034	100 138 147 157 162 169 207 192	100 168 191 231 252 328 341 556	100 174 223 318 353 361 678 476

¹ All data except figures for 1965 revised pinu are from official Soviet statistics. (U.S.S.R., Central Statistical Administration. Narodnove khozyvystro SSSR v 1963 godu, statisticheskiy vezhegodnik, Moscow 1965, p. 373; Narodnove khozyaystvo SSSR v 1960 godu, Moscow 1961, p. 574;
² Original 1965 pilan figures are from Narodnove khozyaystvo SSSR v 1960 godu, Moscow 1961, p. 531.
The railroad plan was given as a range 1800–1850.
² Plan was 320 percent increase over the 1958 figure, which was 399,000,000 ton-kilometers.
² Gudok, Jan. 29, 1965, p. 123 was 17 percent. (Planovove khozyaystvo, No. 2, February 1964, p. 10.)
² Calculated from preliminary data for 1964 and percentage increases currently planned for 1965, as reported in the Soviet press in 1965. (Gudok, Jan. 30, 1965, p. 2; Planovove khozyaystvo, No. 1, January 1965, p. 1, Feb. 25, 1965, p. 1, and Mar. 4, 1965, p. 1; Grazhdanskaya aviatsiya, No. 1, January 1965, p. 3.

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Table XII-2.—Value and volume indexes of the growth of total freight traffic in the U.S.S.R., 1955, 1959-63, and 1965 plans

	Value 1 Volu			ume
	Million	Index	Billion ton-	Index
	rubles	(1955=100)	kilometers	(1955=100)
1955	8, 628	100	1, 165, 0	100
	14, 972	174	1, 768, 4	152
	16, 379	190	1, 885, 7	162
	17, 462	200	1, 998, 2	172
	18, 468	214	1, 116, 9	182
	19, 826	230	2, 301, 7	198
	22, 999	267	2, 533	217
	22, 399	265	2, 686	231

1 Expressed in terms of new rubles at 1955 prices. Sum of the value of production for each carrier. This was obtained by multiplying ton-kilometers by estimated average revenue for 1955 (new kopeks per ton-kilometer) as follows:
Railroads, 0.448 (1).
Motor transport, 8.78. Calculated from the rate per ton for class 2 freight (presumed typical) at the average haul distance in 1955, according to rules established July 1, 1955 (2).
Pipelines, 0.20. Estimated same as cost per ton-kilometer, which was calculated from ton-kilometers and total costs (3).
Inland water, 0.387. Cost plus profit (4).
Maritime, 0.297. Estimated same as cost per ton (6).
Air, 20.
Source references:
(1) Minsker, S. S., compiler. Razvitiye zheleznodorozhnogo transporta v semiletii, sbornik statey, Moscow 1960, p. 320.
(2) U.S.S.R., Ministry of Automobile Transport and Highways. Spravochnik yedinykh tarifov na perevozku gruzov automobil nym transportom, Moscow 1955, p. 5.
(3) Akademiya Nauk SSSR, Institut Kompleksnykh Transportnykh Problem. Transportnyye izderzhki v narodnom khozyaystne SSSR, Moscow 1959, p. 34.
(4) U.S.S.R., Central Statistical Administration. Transport i svyaz' SSSR, statisticheskiy sbornik, Moscow, 1957, p. 24. Recknoy transport, no. 2, 1957, p. 7.
(5) U.S.S.R., Central Statistical Administration. Transport i svyaz' SSSR, statisticheskiy sbornik, Moscow, 1957, p. 24.

CHAPTER XIII

FOREIGN TRADE

HIGHLIGHTS OF RECENT DEVELOPMENTS IN THE FOREIGN TRADE OF THE U.S.S.R.

The international trade of the U.S.S.R. has been growing steadily in recent years. In line with this upward trend, total Soviet foreign trade turnover in 1964 registered another increase, equal to a margin of 8 percent of the preceding year. In 1963, by way of comparison, Soviet trade turnover made a gain of 6 percent. In terms of its aggregate ruble value, Soviet foreign trade amounted to 13.9 billion rubles in 1964, as compared with 12.9 in 1963.

Expressed in dollars, Soviet foreign trade turnover [exports plus imports] came to a value of \$15.4 billion in 1964, as against \$14.3 billion in 1963.

Thus, the foreign trade of the U.S.S.R. in 1963 was equal to 35 percent of the dollar value of U.S. world commerce during the same year. In 1964, the proportion remained roughly the same.

Soviet foreign trade turnover, 1958-63 [In millions of U.S. dollars]

	1958	1959	1960	1961	1962	1963	1964
Exports	4, 298 4, 349	5, 441 5, 073	5, 562 5, 629	5,998 5,828	7,031 6,455	7, 272 7, 059	7, 682 7, 738
Turnover	8,647	10, 514	11, 191	11,826	13, 486	14, 331	15, 420
Percent of increase over turnover of preceding	4	22	6	6	14	6	8

A. RECENT TRENDS IN TRADE VOLUME

During the years 1959-63, i.e. the most recent period for which fairly detailed data are available, the overall, quantitative record of the commodity trade of the U.S.S.R. has been notable for the following developments:

1. The overall value of the country's foreign trade increased 66 percent during the period as a whole, or at an annual rate of 10.7 percent per annum. During the preceding 5-year period, incidentally, the rate of expansion was roughly of the same order of magnitude.

2. The Soviet Union emerged during this period as the fifth ranking

2. The Soviet Union emerged during this period as the fifth ranking nation among the major trading nations of the world, behind France but ahead of Canada.

3. The dollar value of Soviet foreign trade in 1963 was 2.7 times as large as it was in 1953, the last year of the Stalin period.

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B. GEOGRAPHIC PATTERN OF SOVIET FOREIGN TRADE

As far as its geography is concerned, Soviet foreign trade continues to be a highly concentrated affair. As much as 59 percent of all trade transactions concluded by the U.S.S.R. in 1963 took place on the territory of the six small countries of Eastern Europe which are comembers of CEMA¹, the Soviet-initiated regional economic grouping. Another 11 percent of the foreign trade of the U.S.S.R. was devoted to Cuba and the Communist countries of Asia.

Hence, only 30 percent of all foreign commodity exchanges of the Soviet Union finds its way at present outside of the Communist camp. This portion of Soviet trade, in turn, is distributed as follows: 19 percent with the industrially advanced nations; 11 percent with the newly developing countries around the world.

It is worthy of note, moreover, that the Soviet Union has of late been expanding its trade with non-Communist countries somewhat more actively than its trade inside the bloe. During 1959-63, the increase in these two camps has been as follows: 88 percent for its trade with the outside world; 58 percent for its trade within the Communist eamp. This trend may be observed in some detail in the summary table below which compares trade turnover in 1963 with that of 1958:

Geographic distribution of Soviet foreign trade

[In millions of rubles 1]

	1958	1963	Index, 1963 as percent of 1958
Trade turnover, total	7,782	12,898	166
With Communist countries	5, 754	9,077	158
East Europe (CEMA).	4, 174 1, 580	7,628 1,449	183 92
With non-Communist countries	2,028	3,821	188
Industrial nations Nowly developing nations	1,223 805	2, 416 1, 405	198 175

Source: Vneshniaia torgovlia, No. 11, 1964, p. 9.

Another trend that merits our attention, also reflected in the above table, are the relatively modest gains achieved by Soviet trade authorities as a result of their recent drive to promote trade with the newly developing countries. After 10 years of intensive commercial activity among the underdeveloped countries, initiated in 1953, the Soviet Union in 1963 exported about \$900 million worth of goods to this group of countries. This is, by any reckoning, a marginal amount, in light of the fact that the developing countries as a group imported in 1963, from all sources, a volume of goods valued at \$32 billion. As a supplier, therefore, the U.S.S.R. contributed 2.8 percent of all foreign merchandise imported into the underdeveloped areas of the world. The U.S. share, by comparison, was 25 percent.

The Communist camp as a whole, including East Europe and Asia, contributed 6 percent of all the goods imported from abroad in 1963 by the newly developing nations of the world.

¹ The ruble is officially valued by the State Bank of the U.S.S.R. (since January 1961) as equal to \$1.11

Council for Economic Mutual Assistance [generally known as Comecon].

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C. COMMODITY STRUCTURE

As in previous years, the Soviet Union continues to exchange its goods through the world market in a pattern resembling that of a relatively underindustrialized economy. Its principal exports continue to fall in the category of raw materials [fuels, minerals, timber, furs, and foodstuffs], and semimanufacturers (over 60 percent). On the import side, by the same token, machinery and other manufactured products make up the bulk of the merchandise imported into the Soviet economy (over 70 percent).

1. Exports

Among the commodities exported by the Soviet Union in 1963 the following were the principal categories of merchandise:

	Million dollars	Percent of total exports
Petroleum and products. Coal and coke. Iron ore. Steel semimanufactures. Forest products. Cotton fiber. Food. Grain. Machinory and equipment.	910 377 236 551 414 244 906 422 1,435	12. 5 5. 2 3. 2 7. 6 5. 7 3. 3 12. 5 5. 8 19. 7

2. Imports

The principal types of goods imported by the U.S.S.R. in 1963 from all sources were the following:

	Million dollars	Percent of total imports
Metals and metal products Rubber Cotton and wool fiber Chemicals Food Grain Consumer goods. Machinery and equipment Transport equipment	465 213 339 285 871 216 1,240 2,466 847	6, 6 3, 0 4, 8 4, 0 12, 3 3, 1 17, 6 34, 9 12, 0

D. THE PATTERN OF SOVIET TRADE BY REGION

1. Trade with Eastern Europe

During the 9 years since the Soviet Union began to publish trade statistics, the countries of Eastern Europe as a group have dominated the geographic pattern of Soviet foreign commerce. If anything, their importance has grown slightly, namely from a share of 53 percent in 1955 to 58 percent in 1963.

The concentration on trade partners in Eastern Europe may be illustrated by the fact that in 1963 the Soviet Union exported to East Germany alone (\$1.3 billion) more than to all the industrial countries of the non-Communist world taken together (\$1.2 billion).

a. Exports.—A brief tabulation, as shown below, will illustrate what the Soviet Union contributed, by way of its own commodities,

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to this large and growing intraregional exchange of merchandise in 1963:

Commodity group	Million dollars	Percent of total exports
Mineral fuels, solid and liquid	655 388 264 230 598 156 274 499 295 86 735	15. 7 9. 3 6. 4 5. 5 14. 4 3. 7 6. 6 12. 0 7. 1 2. 1

The above, somewhat compressed tabulation helps to identify the chief commodity categories in which the Soviet Union makes its chief contribution to the domestic resources available to the countries of Eastern Europe. Fuels, metals, foodstuffs, and machinery are the four main components of this outflow. Shipments of machinery, from the U.S.S.R., move to all six countries of the region. However, upon closer examination, it appears that only with regard to Bulgaria and Rumania does the Soviet Union function as a net exporter of items in the machinery category, as shown in the table below.

Soviet trade in machinery and equipment with CEMA countries, 1963
[In millions of rubles]

	Exports from the U.S.S.R.	Imports into
Bulgaria. Rumania. Hungary. East Germany. Poland Czechoslovakia.	187 86 86 72 115 116	104 57 207 642 200 462 1,672

b. Imports.—The most prominent feature of the commodity structure of Soviet imports from the CEMA countries is a high proportion of machinery and equipment. So high a proportion, namely 35 percent of the total value of trade with the world, is not generally associated with the import pattern of an advanced industrial nation such as the Soviet Union. What is equally anomalous, in this context, is that the percentage share of machinery has been rising, rather than declining, in recent years. In 1958, for example, the machinery component represented 39 percent, but in 1963 it rose to 45 percent of the value of all goods imported into the Soviet Union from its East European partners.

Imports in the food category also bulk large on the import side of Soviet foreign trade. The share of this group of merchandise (12 percent in 1963) has remained fairly stable in recent years, fluctuating mildly within the range of 10 to 15 percent of all imports.

On the other hand, consumer goods other than foodstuffs, have been gaining as a component of Soviet commodity acquisitions through

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trade with Eastern Europe. Specifically, this category expanded from 5 percent in 1955 to 20.2 percent in 1963.

Chemicals (4 percent), rubber (0.6 percent), and textile fibers (0.1 percent) are among the lesser components in the range of goods imported regularly into the U.S.S.R. from Eastern Europe.

2. Trade with China

Trade relations between Russia and China in recent years have been adversely affected by the far-reaching political quarrel that has raged openly between these two Communist nations since 1960. The outflow of Soviet goods has been especially reduced, as shown by the drop from an annual level of \$955 million registered in 1959, to a level of \$187 million, reported for 1963. This is a drop of roughly 80 percent.

As far as the impact on principal commodities is concerned, the decline in Soviet exports to China may be illustrated as follows:

					_
!In	mill	ions	of a	llof	arsl

	1959	1963
Machinery and equipment	598 118 48 7	42 61 27 14

Although the movement of goods from China to Russia was also affected adversely by their post-1959 political dispute, the decline on this side of the trade has not been nearly as drastic. In dollar terms, the value of Chinese goods imported by the U.S.S.R. declined from \$1,100 million in 1959 to \$413 million in 1963, i.e. a drop of 63 percent. According to Chinese press reports, the relatively higher level of current exports from China in this exchange is explained by the fact that the latter is interested in repaying various credits, both economic and military, received from the U.S.S.R. in the past.

What has happened to the commodity content of Soviet imports

from China since 1959 may be briefly described as follows:

Imports of ores and concentrates declined from \$73 to \$26 million between 1959 and 1963. Tin imports dropped from \$42 to \$9 million in value: from 20,800 to 4,300 metric tons in quantity.

Textile raw materials declined from \$92 to \$9 million during

the same 4-year period.

Similarly, food imports into the U.S.S.R. from China, which amounted to \$219 million in 1959, dropped to \$22 million in 1963.

Other consumer goods have also moved downward sharply, as may be shown by a juxtaposition of the import figure of \$425 million for 1959 and \$288 million for 1963. At that, the reduced import category of "consumer goods" came to 75 percent of all Soviet imports from China in 1963. In 1959, by contrast, the same category encompassed 59 percent of all imports.

3. Trade with the industrial West

Some 18 percent of the foreign commerce of the U.S.S.R. is currently devoted to the industralized countries of the free world. In 1963, this trade was slightly out of balance, with the U.S.S.R. showing a trade deficit of \$162 million with these hard-currency countries.

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On the whole, Soviet trade with the industrially developed countries has followed a fairly stable commodity pattern in recent years. Basically, this trade has amounted to an exchange of Soviet raw materials in return for machinery and equipment from the West.

In this exchange, Russia's principal earner of foreign currency in the West, during the past few years, has been petroleum. In 1963, oil exports brought in 23.5 percent of the country's total earnings from exports to the West (\$284 million). Forest products served as another major source of foreign exchange income in this trade, accounting for 17.3 percent of the dollar value of total exports to this group of partners. Coal and coke contributed another 8.1 percent to the total intake.

Foodstuffs (11.4 percent), ferrous metals (6.9 percent), furs and pelts (5.5 percent), and textile materials (4.0 percent) made up the rest of the range of exports flowing from the U.S.S.R. to the industrial West in 1963.

The commodity content of Russia's imports from the West can be

summed up under four headings:

By far the largest group of imported merchandise fell in the category of machinery and equipment. This group alone accounted for 42.4 percent of all Soviet imports from the West [\$589 million]. Within this broad group, two classes of equipment deserve special mention—transportation and chemical equipment. The former accounted for 30 percent; the latter for 21 percent of all the machinery imported from the West.

Metals contributed a share equal to 13.5 percent of total imports. In terms of dollars, the contribution came to \$187

million.

Last, but not least, grain and other consumer commodities, valued at \$232 million, added another 16.7 percent to the total inflow of merchandise from the industrial West. Wheat alone, largely from Canada, came into the U.S.S.R. in 1963 at a value of \$213 million, a record figure. At that, the larger portion of this record purchase, from both Canada and the United States, did not in fact reach Soviet ports until the early months of 1964.

4. Trade with the less developed countries

Soviet trade with the newly developing countries around the world is currently rising. Yet, this vast group of states still accounts for only 11 percent of total Soviet foreign trade; a rise of 1 percentage point over 1962.

India is now the Soviet Union's largest trade partner among the developing countries. In 1963, in fact, Russia exported more goods to India than to Communist China: \$222 million to the former, as

against \$187 million to the latter.

In general, Asia has emerged as by far the most important continent in the geographic distribution of Soviet trade with the less-developed countries (\$819 million). Trade with Africa ranks second in importance (\$424 million), reflecting the fact that the United Arab Republic is at present the second largest trading partner of the U.S.S.R. among the newly developing countries.

The commodity structure of Soviet exports to the less-developed

countries is summed up, very broadly, in the following table.

	Amount (i	in millions o	f dollars)	Porcent,
	1961	1962	1963	1963
Total exports from the U.S.S.R	507 236 139 67 38 48	569 286 183 63 34 69	760 361 220 81 37 98	100. 0 47. 4 29. 0 10. 7 4. 8 12. 8

As shown by the above figures, Soviet exports to this group of countries are heavily weighted with machinery and equipment, about 50 percent of all shipments. A good proportion of this equipment, furthermore, consists of complete plants, which are being increasingly financed by consense aid credits. A rough calculation shows that financed by economic aid credits. A rough calculation shows that some 48 percent of Soviet machinery exports to these countries was shipped in 1963 under the forcign aid program of the U.S.S.R. All in all, 25 percent of all current Soviet machinery exports are destined for the developing countries.

The import side of this segment of Soviet foreign trade, grouped in

broad commodity classes, shapes up as follows:

	Amount (i	in millions o	f dollars)	Percent,
	1961	1962	1963	1963
Total imports into the U.S.S.R	584 122 225 99 20	615 112 206 142 23	675 168 163 158 18	100. 0 24. 1 24. 2 23. 5 2. 7

It may be interesting to compare the magnitude of Soviet exports to the newly developing countries with the global value of all goods imported by this group of nations. In 1963, the relevant figures were as follows: Total imports into the less-developed areas amounted to \$32 billion; goods exported to them by the U.S.S.R. came to \$760 million, or 2.4 percent of the total.²

Similarly, as a supplier of machinery to the newly developing eountries, the Soviet Union has thus far been making only a modest showing. In 1963, machinery received from the U.S.S.R. (\$361 million) represented only 4.2 percent of the \$8.6 billion worth of machinery and equipment imported into the less-developed areas from all sources.3

E. RECENT TRENDS IN SOVIET TRADE POLICY

1. Eastern Europe

As indicated by the record of recent commercial transactions, Eastern Europe continues to be the main theater of Soviet foreign trade operations.

Here, the Soviet Union is admittedly engaged in a type of commodity exchange that has economic as well as political and strategic

United Nations. Monthly Bulletin of Statistics, December 1964, p. 88.
 Ibid., March 1964, p. XXIV.

objectives. Briefly described, the objectives of intra CEMA trade, as cited in the official Soviet press, are as follows: 4

(a) To work together, as part of their "collective international duty," to utilize all "advantages" inherent in the socialist system to the end of surpassing the world capitalist system in the absolute volume of industrial and agricultural production.

(b) To continue to coordinate the national plans of the several countries in order thereby "to assure the most rapid possible building of socialism and communism."

of socialism and communism."

(c) To achieve the most economic utilization of the resources of the individual countries of East Europe by way of national specializa-

tion in selected lines of production.

(d) To help establish the proportions of production required "to meet the national needs of each country as well as the requirements of the world socialist system as a whole."

Ever since the formation of CEMA, the Soviet Union has functioned as the most important trade partner of the other countries of

Eastern Europe.

The economic importance of the U.S.S.R. in this grouping is shown by the fact that some 40 percent of all imports into the CEMA region are provided by the U.S.S.R. In the main, the Soviet Union makes its best showing as a supplier of raw materials. In the case of a number of basic industrial materials, in fact, Soviet supplies dominate the markets of its trading partners in the CEMA group. Some of the reported percentages of the Soviet share in the total imports of its partners are as follows:

Petroleum	
Iron ore	95
Iron ore	82
Pig iron Steel semimanufactures	86
Coal	90
Coal	65

In the case of machinery, however, the Soviet Union functions in the role of a net importer in this regional trade. This fact may be illustrated by two rather revealing figures; of all the machinery items imported into the other CEMA countries only 28 percent come from the U.S.S.R. At the same time, however, the Soviet Union absorbs 49 percent of all machinery and equipment imported into the region as a whole.

In dollar figures, the recent movement of machinery between the U.S.S.R. and its satellites was recorded as follows (in millions of dollars):

	1961	1962	1963
Imports into the U.S.S.R. Exports from the U.S.S.R.	1, 245 450	1, 624 607	1,859 735

What is equally remarkable is that machinery and equipment accounted for 45 percent of all the commodities supplied by the satellites in 1963 to the U.S.S.R. (the world's second largest producer of machinery).

⁴ Vneshniaia torgovlia, No. 11, 1964, p. 7.

Transportation equipment and ships, in particular, play a large role in current Soviet imports from its regional trade partners. In 1963, this group of imports reached a figure of \$667 million.

2. The newly developing countries

During March-June 1964, the Soviet Union took part in the Conference on Trade and Development, held in Geneva under the auspices of the United Nations. At this session, which included representatives from 75 less developed countries, the delegates of the Soviet Union put forward a number of proposals which embodied their good intentions toward the developing countries. They also expressed themselves in favor of increasing trade relations between the Soviet bloc and the less developed countries. On the whole, however, the Soviet representatives to the Conference tried to avoid the imposition of any specific commitments upon them by the majority of the Conference, i.e. the newly developing countries. This position made it necessary for the Soviet delegates, on several occasions, to cast negative votes or to abstain from voting altogether. It was well recognized by the developing countries that the Soviet bloc could be counted upon for moral support but for very little by way of tangible concessions in the liberalization of imports or the extension of substantial credits.

At this Conference, the Soviet delegates took the rather unique position that while the Soviet Union is a highly developed economy, it is not subject to the same moral obligation toward the newly developing countries as are the economically advanced nations of the Armed with their Marxian logic, the Soviet representatives argued that underdevelopment was the result of colonialism and that since they were, in their own opinion, free of the guilt of colonialism they could not be held responsible for solving any of the problems related to economic backwardness in the world. Indeed, they insisted, anything that the Soviet bloc countries did for the less developed countries they did for reasons of good will, beyond the call of duty.

However, the delegates from the countries producing primary material had no difficulty in reading the true meaning of the Soviet protestation of moral innocence. They read it as an indication that the Soviet bloc was either unwilling or unable to make any important trade concessions to the developing source.

trade concessions to the developing countries.

At this Conference, too, the Soviet Union attempted to incorporate its own views in a resolution on the problem of private capital investment in the developing countries. When these views failed to gain acceptance, the Soviet spokesman expressed its discontent with the fact that the resolution merely urged the creation of a climate favorable for attracting direct private investments "without recommending measures directed at the elimination or the restriction of the negative aspects of the activity of private capital."6

3. The industrial West

Despite the steady growth of industrial production at home, the Soviet Union continues to maintain, on a large scale, its traditional exchange of raw materials and foodstufts for the finished products of the more industrialized nations of West Europe and Japan. The latter nations continue to serve as a ready market for the bulk of the

⁵ Vneshniaia torgovlia No. 12, 1964, p. 15. 6 Ibid., p. 17.

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petrolcum, coal, timber, ores, and other raw materials that make up

the standard range of Soviet export products.

One distinctive and enduring economic interest that draws the Soviet Union to the markets of the industrial West is the availability in this group of countries of a great reservoir of finished products and equipment embodying newly developed and tested technology. This need for maintaining regular contact with the new technical ideas generated in the West has, in fact, not diminished to any perceptible extent in recent decades. Morcover, the very need for such continuing contact, by way of import, has had a profound effect on Soviet trade policy within the past several years. It has lcd the Soviet Government to reexamine the whole rationale underlying its former policies

of national and bloc-wide economic self-sufficiency.

The present Soviet position on autarchy, as modified by its search for economic efficiency, is described in an official Soviet source as

follows:

From an economic point of view, autarchy is disadvantageous, because it tends to slow down the development of the productive forces, to brake the growth of labor productivity. As a matter of fact, the endeavor to produce everything at home, including such goods which are more expensive to produce domestically than to buy in the world market, represents not a saving but a waste of social labor. By the same token, the participation by a country in the international division of labor permits that country to economize on the expenditure of social labor, and thereby to raise its productivity. The Soviet Union and the other Socialistic countries are not secluding themselves within the bounds of their national markets or of the world Socialist market, but are striving to utilize the advantages of the international division of labor on a worldwide scale. advantages of the international division of labor on a worldwide scale.7

In general, in dealing with the industrial West, the Soviet Union displays to the outside world the underdeveloped profile of its economy. With respect to this group of countries, Soviet economic authorities tend to run a chronic import surplus, thus making it necessary to sell gold or to arrange for suppliers' credits of the largest possible duration. In recent years, accordingly, the Soviet Union has succeeded in obtaining several long-term credits, providing for repayment periods of over 5 years. This kind of long-term financing has been obtained for the most part for the recent Soviet purchases. has been obtained, for the most part, for the recent Soviet purchases of fertilizer and chemical plants. According to available incomplete information, based on reports in the Western press, the U.S.S.R. has recently signed contracts for the purchase of the following plants under long-term credit arrangements:

	[Dollars in million	1 s]		
Country supplier	Order	Value of contracts	Repay- ment years	Date
Do Do	Complex of dacron plants Acetic acid plant Chemical plant do Urea plant	13 1	11 10 10 10 8	September 1964. November 1964. December 1964. Do. Summer 1964.

The Soviet Government considers the recent spate of agreements on long-term credits to cover their purchases of complete industrial plants as one of several "victories for the foreign economic policy of the Soviet Union in the struggle against discriminatory barriers in international trade." 8

⁷ Vneshniaia torgovlia, No. 2, 1965, p. 5. ⁸ Vneshniaia Torgovlia, No. 2, 1965, p. 6.

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Table XIII-1.—Geographic distribution of Soviet foreign trade, 1955-63 [In millions of U.S. dollars]

Year E		Total		Cor	Communist countries	ries			Free .	Free world	
	Exports or imports	foreign trade 1	Total 1	European satellites	Communist	Other Asian	Other	Total 1	Industrial West	Less- developed countries	Other
1955		3, 426. 6	2,	1,792.1	748.3	166.1	2,16.4	703.7	543.8	112.4	47.6
1956 E	Imports	3,060.5	c, c.	1,662.8	643.6	94.6	2 17.5	642.1	430.7	210.4	1.1
		3,612.6	ici	1,815.1	764.2	106.8	2 49.7	876.9	578.8	297.3	000
14 /CRT	mports	4, 381, 4 3, 937, 9	2, 304, 4	2,549.9	48	137.3	2 73.1	1,077.0	690.4	282.5	104 1
1958		4, 297. 5	`ດວັດ	2,320,1	634.0	131.0	251.1	1, 161.3	669.6	389.4	102.3
1959 臣		5,440.7	ુ 4્	2,950.5	954.5	172.7	2 46.2	1, 107. 5	855.5	482. I 343. 4	3.2 117.9
1960	Exports	5,073,2	დ,4	2,519,4	1,100.3	116.7	2.53.1	1,283.7	756.5	522.2	0 kg kg
	Imports	5,628.9	Proj	2,819.4	848.1	397.8	4 213.2	1,650.4	1,069.4	574.9	6.0
1961 E	Exports	5,998.2	41.4	3,399.7	367.3	3 118.3	\$ 435.7	1,677.1	1,060.0	507.4	109.7
1962E		7,030.5	1,4	3,971.1	233.4	3 135 3	5.565.3	1, 680 g	1,087.5	568.5	450.5
	-	6, 455, 4	.4,	3, 590.3	516.3	3 118, 4	5 340. 4	1,889.9	1, 271.0	615.2	3.6
1963		7, 272, 4	ະດົ	4, 163.3	187.2	138.8	\$ 610.1	2, 173.0	1, 208.3	760.4	204.3
7	mports	7,058.5	4	4, 146.8	413.0	123.4	\$ 303.0	2, 672, 2	1,388.6	674.8	1~ 00

Source: Figures based on Vasshniaia Torgalia SSSR 2a 1962 god, Ministerstru Vneshnei Torgovli SSSR (Moskra, 1964) and earlier volumes. Values converted from rubles to dollars at the rate of 1 ruble=\$1.1111.

1 Because of rounding, components may not add to the totals shown, a Yugoslavia.
2 North Korea and North Vietnam.
4 Cuba, Outer Mongolia, and Yugoslavia.
5 Cuba, Outer Mongolia, and Albania.

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Table XIII-2.—Commodity composition of Soviet exports, 1955 and 1958-63 [In millions of U.S. dollars and percent of total]

	1955	25	1958	80	1959	6	1960	0	1961	1	1962	c _i	1963	_
	Value	Percent	Value	Percent	Value	Percent	Value.	Percent	Value	Percent	Value	Percent	Value	Percent
Total exports 1	3, 426. 6	100.0	4, 297.5	100.0	5, 440. 7	100.0	5, 561. 6	100.0	5, 998.2	100.0	7, 030. 5	100.0	7, 272.4	100.0
Machinery and equipment	699.0	17.5	794.8	18.5	1, 168. 1	21.5	1,141.2	20.5	964.6	16.1	1, 168. 5	16.6	1,435.1	19.7
Complete plants	276.8	20 7 20 7	339.9	9.5	569. 1	10.5	268 E 508	10.2	355.8	9.7	411.5	2.4	254.9	9,4
Coal and coke	97.8	6	219.8	ici	229.1	4.2	242.1	4	284.9	4	346 4	4	276.0	14.7
Petroleum and petroleum products	230.1	6.7	429.9	10.0	567.0	10.4	627.9	11.8	757.8	12.6	803.7	11.4	910.4	12.5
Ores and concentrates.	115.4	w; €	190.0	4,0	215.8	4. c	242.9	ক্ত	252.6	4:	273.6	6.5	291. 4	4.0
Personal property of the prope	:	4 6	137.4	7 -	154.3	10	175.0		20 C		215.7	000 T	235.0	60 ¢
Parents metals	321.6	4.09	495.3	11.5	547.0	10	625.7	11.6	712.1	10	1,010,0	4 5	1,012.8	25.5
Rolled ferrous metals	192, 2	5.6	329.9	7.7	366.2	6.7	428.8	7.7	478.2	8	540.3	7.7	251.2	14
Nonferrous metals.	110.7		197.6	4, 6	195.9	 9 (194.9	က က	211,1	69	217.5	.3.1	218.7	3.0
Aluminum	50° 6	×.c	2.2		48.6 20.4	ع د	4 2	×.	88.5	1.0	77.6	118	79.5	1.1
Chemicals	72.4	2.1	113.8	8:00	122,3	2.5	145.7	.2.	173.9	. 2.	176.8		190	(E)
Wood and wood products	174.5	5.1	240.9	5.6	259.9	4.8	305.1	5.	361.7	6.0	420.4	6.0	414.2	ici
Lumber	8,5	α; 2 2 3	6.66 6.66 6.66 6.66 6.66 6.66 6.66 6.6	0 0 0 0	150.2	100	182.8	က်မ	206.5	4.	<u> </u>	 	234.9	8
Textile raw materials and seminandiactures.	6 160	2 6	238.6	0 0	248.1	4 6	286.0	9 15 4 6	2 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	9.4	250.0	44 00	942.5	4; c
Consumer goods	538.0	15.7	705.6	16.4	998.5	18.4	898.9	16.2	1,010.5	16.8	1, 132, 1	16.1	1.154.5	15.0
Food	386.4	11.3	510.6	11.9	797.7	14.7	693.4	12.5	796.5	13.3	912.1	13.0	906.3	12.5
Grain	283.5	00 00	358.8	8	487.2	0.6	467.8	20.4	473.8	7.9	529.4	7.5	422.2	5.00
Other consumer goods	151.6	41	194 9	4:0	200	1-1	205.6		214.0	9	20.0	3.1	248.1	3.4
Other merchandise	2.5	~ c	149.2	0	192, 7	ر ان ان	214.2	တစ်	229.6	တ်	220.1	ಣೆ	227.1	3.1
Unspecified	1.189	20.2	400.0	10.8	7.99	II. o	910.0		672.4	7.	1, 125. 1	16.0	917.7	12,6

² Negligible.

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Table XIII-3.—Commodity composition of Soviet imports, 1955 and 1958-68 [In millions of U.S. dollars and percent of total]

	1955	rð.	1958		1959		1960	<u>8</u>	1961	=	1962	83	1963	60
	Value	Percent	Value	Percent	Value	Percent	Value	Percent	Value	Percent	Value	Percent	Value	Percent
Total imports 1	3, 060. 5	100.0	4,349.5	100.0	5, 073. 2	100.0	5,628.9	100.0	5, 827. 6	100.0	6, 455. 4	100.0	7,058.5	100.0
Chinery and equipment	925.3	30.2	1,064.6	24.5		26.6	1, 675. 2	29.8	1, 734. 5	29.8	2, 245. 0	34.8	2, 466. 0	34.9
ls, lubricants, and related materials.	250.0	4 4 5 8 8 8	212.2	× 4	24.2.4 25.1.4 4.5.5.4	2.4	237.7	11.7	234.3	71 F3	7488 27.2	3.1	201.2	21°
Coal and coke	126.9	4	77.0	.8		17	88.	1.7	93.6	1.6	95.	1.5	97.3	i –i
retroleum and petroleum products	123.1	4; 0	135.2	69 C	145.6	014	143.7	93	123.4	.i.	103.5	1.6	104.6	1.5
e metals and manufactures	204.1	900	316.5	9 17	435.0	9 00	545.9	0 t	491.4	o vo	563.4	4 ×	464.1	- 1 00
Ferrous metals	71.0	23.3	183.4	4.2	265.2	5.2	373.9	9.9	348.4	0.9	427.0	9.9	339.9	8.4
Nonferrous metals	123.1	. A	127.8	2,0	22.0	٠i،	∞ ç ∞ ç	c) -	160.4	0 i	192.7	3.0	169.5	€; •
Tin	47.9	1.6	30.5	1.0	41.8	o oc	34.0	9.1	5 5 5 5 5 5		160.4 20.4	76	17.0	÷.
Copper	43.5	1.4	74.5	1.3	74.3	1.5	11.9	1.3	23.0	6.	88	1:1	22.	9∞.
micals	25.7	-i-	∞ 8 9 9	es e	110.3	ଦ୍ରୀ ଦ	149.3	25.7	153.5	2.6	212.0	60.0	285.2	4.0
od and wood products	92.9	# O	102.2	4.0	- F	w	196.2	 	194.5	4.0	251.4	27 0 27 0	212.5	9 1. C
tile raw materials and semimanufactures.	166.4	4.6	309.3	17:	329.7	6.5	364.5	9 20	303.4	4 63	282.8	4	. ×	0.00
Cotton fiber	20.1	.7	135.2	3.1	163.9	3.2	179.9	3.5	130.1	22	118.6	1.8	170.0	2.4
W 001 II Der	89.7	5.0	107.7	25.55	100.8	2.0	118.0	2.1	103.8	1:8	98.4	1.4	88 88	1.3
Food	667.3	21.8	1, 187. 0	27.3	1,465.8	28.9	1,572.2	27.9	1,777.7	30.5	1,826.7	28 38 39	2, 110.7	39.0 30.0
Other contemps and district	Z SZ	16.9	202.7	12.9	200	10.8	611.8	10.9	783.5	13.4	712.8	11.0	820.8	12.3
other constitute goods.	205	4.0	624.3	14.4	917.5	18.1	960.4	17.1	384.5	17.1	1, 113. 9	17.3	1, 239. 9	17.6
nerited	400.4	0.0	480.4	×,	433.4	20.00	375.9	6.7	339.3	80.0	354.5	5.5	409.2	ο 10
Total Control of the	7.7	4.0	89.0	7.7	7.06	F. G	7.98	1.7	118.7	2.0	104.4	1.6	158.2	2.2

cause of rounding, components may not add to totals shown

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Table XIII-4.—Commodity composition of Soviet exports to European satellites, 1955 and 1958-63 [In millions of U.S. dellars and percent of total]

	1955	55	1958	_	1959	2	mer	2	1001		1961	9	nor	13
	Value	Percent	Value	Percen:	Value	Percent	Value	Percent	Value	Percent	Value	Percent	Value	Percent
Total exports 1.	1,792.1	100.0	2,320.1	100.0	2, 950. 5	100.0	3, 117. 7	100.0	3, 399.7	100.0	3,971.1	100.0	4, 163.3	100.0
Machiners and equipment	204 4	17.0	1 016	10.7	268 5	19.5	414 0	13.2	450 0		808	15.3	734 0	17.7
Complete plants	130	1.0	710.H	6	200	in	108.6	9 10	200	_	141 9		184.2	7
Phole libricants and related materials	190		301.8	12.	351.3	5 =	413.7	- E	485 8	4.3	4.88	14.7	655.2	15.7
Coal and coke	64.1	9	153.9	9.9	162, 5	5.5	171.1	5.5	204.0	.	252.2	6.4	265.1	6.4
Petroleum and petroleum products	55.1	3.1	146.3	6.3	187.1	6.3	240.7	7.7	279.5		328.4	80	387.7	9.3
Ores and concentrates	102.3	1	38	7.1	187. 0	6.3	206.6	9.5	218.4		245.8	6.2	264.4	6.4
Iron ore	81.6	4.6	135.2	5.8	151.3	5.1	170.8	5.5	184.1		211.0	5.3	230.4	5.5
Base metals and manufactures	249.6	13.9	455.2	19.6	520.5	17.6	584. 1	18.7	652.2		727. 1	18.3	754.1	18.1
Ferrous metals	164.3	9.5	345.8	14.9	392.3	13.3	451.7	14.5	506.2		574.2	14.5	288.0	14.4
Rolled ferrous metals	97.0	5.4	239. 7	10.3	280.8	9.6	328.2	10.5	373.5		422.3	10.6	447.8	10.8
Nonferreus metals.	63 63	00 NF	100.4	74	128.2	رن ده	132.4	4i	146.0		152, 8	00 00	156.1	esi N
Aluminum	17.2	1.0	28.9	1.2	30.0	1.0	30.6	1.0	42.5		49.7	- S	51.3	1.2
Tim	5.9		8.1		80	60.	6.3	67.	2.00		9.	: E		
Chemicals	36.1	2.0	52.8	2.3	58.3	2.0	65.4	2.1	75.0		83.3	2.1		2.2
Wood and wood products	20.5	1.1	82.9	3.6	87.7	3.0	98. 7	63	118.0		148.3	~1	139.3	. 3.
Lumber	4.0	27	46.7	2.0	49.6	1.7	58.6	1.9	68.8	_	82.2	2.1		2.0
Textile raw materials and semimanufactures.	264.3	14.7	243.9	10.5	241.8	8.2	283. 2	9.1	293.0	_	273.3	6.9		6.6
Cotton fiber	233.8	13.0	208.3	9.0	204.1	6.9	234.0	7.5	231.0		215.2	5.4		8.4
Consumer goods	288.7	16.1	425.1	18.3	658.6	13	573.2	18.4	509.0		638.9	10.1		14.0
Food	262.3	14.6	349. 2	15.1	583.3	19.8	497.7	16.0	426.9		547. 4	13.8		12.0
Grain	230.4	12.9	269.8	11.6	353.7	12.0	352.6	11.3	275.0	_	347.5	8		7.1
Other consumer goods	26.4	-	75.9	65	75.3	2.6	75.6	2.4	82.0		91.5	2.3	86.1	2.1
Other merchandise	65.0	i ora	8 49	00	90 90 90	0	4	60	114.1		116.1	2.9	118.6	oc ci
Unspecified	340.9	19.0	281.3	12.1	388.0	13.2	384.0	12.3	484.3		548.4	13.8	546.8	13.1
			1											

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Table XIII-5.—Commodity composition of Soviet imports from European satellites, 1955 and 1958-63

			[In millio	ns of U.S	[In millions of U.S. dollars and percent of total]	nd percei	t of total]							ì
	1955	100	1958	· · ·	1959	6	1960		1961	н	1962	7	1963	
	Value	Percent	Value	Percent	Value	Percent	Value	Percent	Value	Percent	Value	Percent	Value	Регсеп
Total imports 1	1,662.8	100.0	2, 205. 7	100.0	2, 519. 4	100.0	2,819.4	100.0	3,044.1	100.0	3, 590. 3	100.0	4, 146.8	100.
Machinery and equipment Transportation equipment Fuels, inbricants, and related materials. Coal and coke Petroleum and petroleum products Ores and concentrates. Base metals and manufactures. Rolled ferrous metals. Nonferrous metals. Nonferrous metals. Coemicals. Rubber and rubber products. Rubber and rubber products. Textile raw materials and semimanufactures. Coston fiver Coston fiver Coston mercent goods. Rod. Other merchandise. Other merchandise. Unspecified	85.50	44047.00000	861.6 1989.7 176.0 176.1 116.0 106.0	ಹೆಸ್ಡಇವಾಗ ್ಟ್ ಡ	1,0089 9 20,000 9 20,	214 2177 227 227 237 247 247 247 247 247 247 247 247 247 24	200 6 4 10 10 10 10 10 10 10 10 10 10 10 10 10	ಡೆಸ್ಟ-ಜೃ4ಜಜ್ವ . ್್ರಿಡ	2.25.2 192.0 192.0 192.0 190.9 100.9	ರೆಕ್ಕಣಭಜ್ಜಕ್ಕಳ. ಇ.ಗ. ಬೆಂಬಂಡೆಕಳ ೧೦೧೮ ೧೮ ೧೮ ೧೮ ೧೮ ೧೮ ೧೮ ೧೮ ೧೮ ೧೮೮೦ ೧೮ ೧೮ ೧೮ ೧೮ ೧೮ ೧೮ ೧೮ ೧೮ ೧೮ ೧೮ ೧೮ ೧೮ ೧೮	1,623.9 1572.5 1573.5 1573.5 19.19 19.1	ಇದೇ ಲಾವವ 400 . ಅ	1, 588.5 1826.7 1826.7 183.0 183.0 170.3 1	44644949999999999999999999999999999999

¹ Because of rounding, components may not add to totals shown.

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Table XIII-6.—Commodity composition of Soviet exports to Communist China, 1955 and 1958-63 [In millions of U.S. dollars and percent of total]

	1955	ເລ	1958		1959		1960	9	1961		1962	63	1	1963
	Value	Percent	Value	Percent	Value	Percent	Value	Percent	Value	Percent	Value	Percent	Value	Percent
Total exports 1	748.3	100.0	634.0	100.0	954. 5	100.0	817.1	100.0	367 3	100.0	233.4	100.0	187.2	100.0
Acomplete plents Fuels, lubricants, and related marerials Fuels, lubricants, and related marerials Ores and concentrates Base metals and manifactures Ferrous metals. Nonferrous metals. Nonferrous metals. Aluminum. Chemicals and wood modurels	22.2.6 141.5 6 175.0 75.5 75.7 75.7 75.7 75.7 75.7 75.7	282236513411	20 20 20 20 20 20 20 20 20 20 20 20 20 2	డ్డిషెషె . బెల్లారు. ఆబనంచుకుండారు.	000001111 7.001111 7.00111140000000000000000000000000000000	88444 8444 8444 8444 8444 8444 8444 84	200 200 200 200 200 200 200 200 200 200	មាំ មាំ មាំ ក្រសួល . ឧក្នុង។ ក្រសួល	1882 1982 1984 1984 1985 1985 1985 1985 1985 1985 1985 1985	82 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	25.20 88 88.27.2.19.20 80.00 80.00 80.00	7.8.8.8.9.9.9.9.9.9.9.9.9.9.9.9.9.9.9.9.	22.24 26.00 27.27 27.27 28.28 29.09 40.09	22.25. 22.25. 22.26. 24.44. 23.39.29.39.39.39.39.39.39.39.39.39.39.39.39.39
Consumer goods Food Other consumer goods Other merchandise Unspecified Because of rounding, components may not add to totals shown	1.0 1.0 5.3 6.0 322.0 add to tot				6.6 6.1 11.0 161.4		(2) (4,4 (11.9) 107.0	(2) . 5 1.5 1.5 13.1	25.53 8.52 8.60 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	2008 2008 2008 45.3999	4 55 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	8.44 1.51 1.7.48 1.48 1.48 1.48 1.48 1.48 1.48 1.48 1	4.77.1.21 2.2.2.21

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Table XIII-7.—Commodity composition of Soviet imports from Communist China, 1955 and 1958-63 [In millions of U.S. dollars and percent of total]

	1955		1958	90	1959	6:	1960	•	1961		1962	73	1963	63
	Value	Percent	Value	Percent	Value	Percent	Value	Percent	Value	Percent	Value	Percent	Value	Percent
Total imports 1	643.6	100.0	881.2	100.0	1, 100.3	100.0	848.1	100.0	551.4	100.0	516.3	100.0	413.0	100.0
Machinery and equipment	10.3	1.6	4.3	10,10	12.4	ļ	7.	1.	œ.	.1	80.7	1.7	6.9	1.7
Trees, inbricants, and related materials.		, , , ,	≎ ಕಣೆನೇ		1444 1864		22.6 2.6	ui wi	6, 6; 4.4.	4.4.	25.7	יטיט	ରୀରୀ ୧୯୭୦	
Petroleum and petroleum products Ores and concentrates	26.3 26.3	9.7 12.8 4.1	74.0 19.1 19.2	®% ⊬.q. 4 ⊬.q.	73.3 7.6 7.6		61.2 61.7 12.8	7.2	48.3 42.9 8.7	1.88	35.3 6.6	0 0 0 0 0 0 0 0	22.83.01 0.44.0	9.5.7 2.6
Rolled ferrous metals. Nonferrous metals. Tin.	56.2	7.8.7	\$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$,ಗಳ-40 ಬಾಬಾಬಾ	54.9 41.7		24.50 0.00 0.00 0.00	10,41- ∞ 117	34.2 22.4	<u> </u>	25.9 17.5	3.4	12.5 8.7 7.6	<u> </u>
Chemicals. Wood and wood products. Rubber and rubber products. Textile raw materials and semimanufactures.	59.5	9.2	28.1 37.5	4 .84.	23.1.0 2.1.0 2.1.0 2.1.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3		11.138 6.36.00	1.14.		:4; -1.057	. 4.6j. 			And the state of
Cotton fiber Wool fiber Consumer goods	23.6	38.37	21.2	2,20	22.22 24.25 24.20		318.4 19.4 19.4	6125	360.6 17.4		382.7.5 382.3 1	74.5	809.6 21.9	2,75,72
Food Other consumer goods Other chandise	188.5 188.2 1.2	8 6 8 E	253.0 160.7 4.0		425.3 171.6 7.2		390.5 96.6 14.7	46.0 11.4	343.2 31.0 31.4		248 26.6 2.6 3.6 6.6	. 5.7. 7.7.	287.7 19.0 5.5	1.3

1 Because of rounding, components may not add to totals shown.

² Negligible.

Table XIII-8.—Commodity composition of Soviet exports to the industrial West, 1955 and 1958-63 [In millions of U.S. dollars and percent of total]

Total exports 1	Percent 100.0 13.3 5.0 8.3 2.4	Value 143.7 143.7 53.3 59.4	Percent 100.0	Value	Domont							000	
terials	100.0 13.3 5.0 8.3 2.4 1.4	669. 6 143.7 53.3 90.4	100.0		rercent	Value	Percent	Value	Percent	Value	Percent	Value	Percent
terials	13.3 0.0 2.4 4.4	143, 7 53, 3 190, 4	21.5	855. 5	100.0	972.6	100.0	1,060.0	100.0	1, 106.6	100.0	1, 208.3	100.0
ducts	0.864	18 8 8 10 4 0		7 206	8 16	0 346	90	. 010	000				
ducts	∞ ¢! ∸ ⊛ 4. 4	8:8: 4:8:	00	255	4.6		ć, rc	20.00	e e	270.5	83 t	382.4	91.0
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Çi	33.9	13.5	152.7	17.8	188.7	19.4	214.0	100	942.2		20.00	oo 6
	1.4	,	3.6	25.6	60	33.1	4.5	3 4	 i ≪	95.1	960	4. 2	6.5
_	10	16.2	2.4	14.6	1.7	14.9	1.5	100		jo	o oc	15	40
		200	14.2	95.4	11.3	111.3	11.4	119.9	11.3	120.1	0.00	115.4) (
	0 9	335	4, L	9,6	10	20.9	7.3	80.8	7.6	8,48	7.7	8	9
	, i	4.6		~ ·	20	34. 7	9	40.6	30	46,0	4	41.5	, e.
) (r	0 0 0 0 0 0	-ic	2.0	41	0.81	1.9	24.0	2.3	25.9	က	27	ci ci
Tin	•	30.00	90	3.5	- o	40.3		39.0	3.7	35.3	3, 2	31.9	5 5 7
	15	100	o r	3 :	xo o	1.5.1	I. 3	×.	- 5	1			
	21.0	18.0	18	190.4	- i	5.72	×	7.7	7.5	15.6	1.4	14.8	1.2
	13.4	75.1	# c	20.00	100	00.00	16.2	177.3	16.7	201.3	18.2	209 0	17,3
anufactures	15.0	300	10	9.0	0,	99.00	10.2	106.7	10.1	109.7	6.6	123, 2	10.2
	o	9 6	, c	30	1:,	40.4	7.7	52.1	4; 0;	02.6	4.8	48, 1	4.0
	5	100	20	0.0	4,6	500.3	4	34.7	60 60	35.0	2.9	20. 4	2.5
	2 - 6	0.10	0 0	170.0	9.9	168.2	17,3	206.6	19.5	188.4	17.0	215.8	17.0
	10.0	0 0	17.7	126.4	14.8	117.4	12.1	158.2	14.9	134.1	15.1	137 4	11.4
	o o	3,1	4.6	66	11.6	85.3	00 00	128.2	12.1	8	i oc	7	10
Firs and malte	ာ၊ တွင်	37.5	9.0	4	5.2	50.8	5.2	48.4	4.6	4.	4	4	o u
	0	S.	5,1	30.0	4.7	44,3	4.6	41.4	0	46.9	00	1 0	o h
Then the contract of the contr	12.6	25.5	14.1	120.9	14.1	147.5	15.2	130.0		123.3	4 	36	o c
	N N	7.72	4.1	45.3	5.3	38.8	4.0	63.7	0.0	24.00	8	38	o co

i Because of rounding, components may not add to totals shown,

Table XIII-9.—Commodity composition of Soviet imports from the industrial West, 1955 and 1958-63

			[In millic	one of U.S	[In millions of U.S. dollars and percent of total]	nd percer	nt of total]							
	1955	25	1958	82	1959	69	1960	9	1961		1962	83	1963	
	Value	Percent	Value	Percent	Value	Percent	Value	Percent	Value	Percent	Value	Percent	Value	Percent
Total imports 1	430.7	100.0	622.3	100.0	756.5	100.0	1, 069. 4	100.0	1, 087.5	100.0	1, 271.0	100.0	1,388.6	100.0
Machinery and equipment Chemical equipment Transportation equipment Transportation equipment Bass metals Relucifications metals Relucifications metals Nonferrous metals Wood and wood products Textle raw materials and semimanufactures Wool fiber Synthetic fiber Consumer goods Other merchandise	4. 181 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6	අලේදීයුයුපු . ඉදුට් ලෙඅපුට් උද ආශ්රයයුපු . ඉදුට් ලෙඅපුට් උද ආශ්රය සිතින් අපසි උදි සිති	194.1 19.5 19.5 106.3 106.3 106.3 106.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10	2 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	288.00	88 1008 1008 1008 1177 1177 1177 1178 1178	455.9 135.4 2021.1 2022.1 10.5 2021.1 2021.1 2021.1 2022.1 2022.1 2021.1	4444888510048847441411 678486700484741411 67846768	20.00 20.00	数以の公式できてよるのであるの とこのストウ4万の4下4の800	26.88.12.25.44.25.25.25.25.44.25.25.25.25.25.25.25.25.25.25.25.25.25.	74-118200044850048411 8008810441711848000	28.5 28.5 28.5 28.5 28.5 28.5 28.5 28.5	ి. జి. జి. జి. జి. జి. జి. జి. జి. జి. జి.

2 Neoligible

¹ Because of rounding, components may not add to the totals shown.

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Table XIII-10.—Commodity composition of Soviet exports to less-developed countries, 1955 and 1958-63 [In millions of U.S. dollars and percent of total]

	1955	18	1958		1959		1960	0	1961		1962	g	1963	62
	Value	Percent	Value	Percent	Value	Percent	Value	Percent	Value	Percent	Value	Percent	Value	Percent
Total exports 1	112.4	100.0	389.4	100.0	343.4	100.0	345.8	100.0	507.4	100.0	568. 5	100.0	760.4	100.0
Machinery and equipment Complete plants Petroleum and petroleum products Rolled ferrous metals Wood and wood products Food Other merchandise Unspecified	7.1.28.1.19.1.19.1.19.1.19.1.19.1.19.1.19	2.28 2.1.0 3.1.0 3.0.0 3.0.0 3.0.0 3.0.0	160.5 112.3 178.2 2.4.2 4.5.6 4.5.6 2.3.6 4.6 4	20.22 20.22 20.23 20.23 20.23 20.24 20.23	21.00 20.00	2.02 2.02 2.02 2.03 2.03 2.03 2.03 2.03	24.28.28.28.28.28.28.28.28.28.28.28.28.28.	8.00 19.00 1.7.7.11 1.00 1.12 1.13 1.13	286.1 138.6.1 67.4 23.5.4 47.6 38.5 38.2	4.6. 2.7.2 1.3.3 4.6 6.7.7 1.11 7.	286.0 1825.5 62.2 82.2 84.4 69.1 18.5 18.5	30.3 11.0 5.7 6.11 8.3 11.5	360.7 220.3 220.3 81.4 86.8 97.5 98.0	74.02 10.02 10.03

1 Because of rounding, components may not add to the totals shown.

Table XIII-11.—Commodity composition of Soviet imports from less-developed countries, 1955 and 1958-63

[In millions of U.S. dollars and percent of total]

	1955	22	1958		1959	60	1960	0	1961		1962	22	1963	53
	Value	Percent	Value	Percent	Value	Percent	Value	Percent	Value	Percent	Value	Percent	Value	Percent
Total imports 1	210.4	100.0	482.1	100.0	522. 2	100.0	574.9	100.0	584.1	100.0	615.2	100.0	674.8	100.0
Cotton fibers Natural rubber Food	18.9 25.5 103.0	9.0 12.1 49.0	135.2 131.4 92.0	27.3 19.1	111.6 144.0 107.1	1272.02 4.6.73	139.4 151.8 123.3	2,82.2 2,44.	122.0 224.8 99.1	20.9 38.5 17.0	112.4 205.9 142.0	23.53 23.53 23.53	167.7 163.3 158.4	4444 0000
	47.3 15.5		121.8	25.3	$\frac{37.3}{121.0}$	23:21	126.3		115.5		131.1		163.0	

's Because of rounding, components may not add to the totals shown.

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Table XIII-12.—Trends in foreign trade between the U.S.S.R. and selected freeworld countries, 1955 and 1958-63 $^{\rm 1}$

[In millions of U.S. dollars]

	1955	1958	1959	1 9 60	1961	1962	1963
Free world, total	1, 345. 8	2, 268. 8	2, 600, 4	3, 004. 5	3, 358. 0	4, 015. 2	4, 245. 2
Industrial West	974. 5	1, 291. 9	1, 612. 0	2,042.0	2, 147. 5	2,377.6	2, 596. 9
Finland United Kingdom West Germany France Italy Sweden Belgium Netherlands United States	53. 0 95. 8 33. 8 45. 6 39. 3	254. 3 218. 4 137. 8 167. 7 73. 8 58. 3 39. 2 74. 6 30. 8	286. 7 256. 6 209. 3 188. 2 130. 8 86. 0 37. 0 79. 8 43. 4	293. 4 300. 6 318. 0 203. 7 193. 0 99. 5 51. 4 69. 9 84. 6	278. 0 365. 0 298. 1 199. 9 226. 2 103. 2 67. 6 75. 8 75. 0	395. 4 330. 4 344. 1 239. 9 229. 9 129. 6 79. 2 90. 0 44. 4	427. 2 344. 9 284. 2 174. 4 272. 8 133. 8 77. 8 79. 4 52. 7
Less-developed countries	322, 7	871.5	865.0	920.7	1,091.5	1, 183, 7	1, 435. 2
Egypt	21. 8 24. 5 52. 1 41. 6	194, 8 180, 9 118, 0 35, 7 33, 3 63, 9 38, 8	180. 7 128. 6 127. 6 43. 9 44. 7 36. 8 26. 7	191. 1 115. 6 113. 7 48. 8 35. 7 37. 0 47. 0	204, 9 162, 3 171, 5 59, 2 30, 4 36, 5 65, 2	176, 3 196, 4 163, 2 64, 7 17, 8 32, 6 07, 2	258. 8 316. 7 136. 9 64. 5 19. 3 41. 6 79. 7
Other countries	48. 6	105. 4	122.8	41.8	119. 0	453, 9	213.0

¹ Because of rounding, components may not add to the totals shown.

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Table XIII-13.—Soviet imports from the underdeveloped countries, 1955 and $1959{-}63\,^{1}$

[In millions of current U.S. dollars]

Area and country	1955	1959	1960	1961	1962	1963
Total	210, 4	522, 2	574. 9	584. 1	615. 2	674.8
A frica	16. 3	76. 0	79. 6	51. 3	59.7	77.8
Algeria Cameroon Ethiopia Ederation of Rhodesia and Nyasa-	0 0 0	(2) 8.5 .7	(2) .3 .5	(2) (3)	(3) 1, 2	(3) 2. C
land Ghana Guinea Ivory Coast Mall Moroceo Nigeria Senegal Somalia Sudan Tanganyika Togo	0 11. 5 0 2. 5 0 2. 3 0 (3) (8) (8)	28. 5 8. 2 .8 7. 6 (3) 1, 4 7, 4 (3) (3) (3) (3) (3) (3)	26. 4 21. 6 2. 2 5. 4 0 4. 0 7. 0 (3) (3) (5) 5. 8	13. 2 6. 8 4. 2 (8) 3. 8 5. 2 1 (8) 0 10. 4	13. 6 16. 7 2. 6 (8) 4. 4 6. 0 8 0 3 10. 6	16. 0 21. 6 2. 3 (3) 3, 0 10, 2 4 . 2 17. 2 . 8
Tunisia Uganda	0	1. 0 6. 9	1. 5 4. 9	2.8 4.1	(3)	(3)
Asia	57. 6	229. 2	252. 6	322. 2	334. 5	314. 6
Afghanistan Burma Cambodia Ceylon India Indonesia Malaya Nirpal Pakistan Thalland	10. 9 16. 8 0 0 4. 4 3. 7 31. 8 (1) (2) (2)	15, 6 4, 0 (2) 4, 7 60, 6 11, 0 126, 7 (3) 3, 7 2, 9	16.8 5.0 3.0 8.6 68.4 31.4 111.5 (3) 4.4 3.5	19. 7 2. 5 6. 3 9. 0 66. 9 33. 9 169. 5 4. 3 9. 8	25. 3 12. 3 6. 1 6. 1 71. 7 38. 7 161. 0 0 3. 9 9. 4	19, 6 13, 8 2, 1 7, 4 94, 8 29, 8 133, 8 0 9, 7 3, 6
Europe	13. 4	19. 2	24.8	7. 4	12.8	12. 1
Iceland Portugal Spain	10.0 3.4 0	12. 4 1. 8 5. 0	10. 5 2. 5 11. 8	(3) 2.1	11.8 (³) 1.0	10.8 (3) 1.3
Latin America	78.0	56. 5	35.7	50.7	74. 1	75.4
Argentina	28. 1 1. 9 35. 8 2. 2 0 10. 0	27. 9 4. 8 7. 4 1. 3 (3) 15. 1	21. 7 9. 4 (1) 3. 3 0 1. 3	19. 9 24. 0 (¹) . 3 2. 4 4. 1	9. 8 35. 8 (1) 7. 4 5. 8 15. 3	18. 4 43. 4 (1) 8. 2 5. 2
Middle East	44. 7	141. 5	182.0	152. 5	134. 2	195. 2
Cyprus Greece Iran Iraq Israel Lebanon Libya Syria Turkey United Arab Republic	0 2.3 19.1 .3 1.8 .8 0 0 5.1 15.3	(3) 12. 3 18. 8 2. 3 (3) 3. 9 0 6. 1 4. 8 92. 7	.6 19.0 19.0 3.4 (3) 3.9 .5 7.8 5.2 121.3	1. 5 16. 9 18. 3 4. 6 (8) 3. 7 . 6 4. 4 4. 9 96. 2 1. 4	1. 5 21.7 16.4 3.8 (8) 4. 0 2 6.8 5. 4 72. 9 1. 5	1.3 22.4 17.8 5.2 (3) 1.2 8 14.2 7.1 123.6

¹ Imports are valued f.o.b. Because of rounding, components may not add to the totals shown. Excludes Yugoslavia for all years and Cuba for 1960-63. Imports from Cuba and Yugoslavia were as follows (in millions of current U.S. dollars): From Cuba: 1960, 103.8; 1961, 811.9; 1962, 224.0; 1963, 164.4. From Yugoslavia: 1955, 17.5; 1959, 53.1; 1960, 53.1; 1961. 54.6; 1962, 46.1; 1963, 86.9.

² Less than 50,000 rubles.

³ Not reported.

Source: Official Soviet foreign trade publications.

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Table XIII-14.—Soviel exports to the underdeveloped countries, 1955 and 1959-63 * [In millions of current U.S. dollars]

Area and country	1955	1950	1900	1961	1962	1963
Total	112. 4	343. 4	345. 8	507. 4	508. 5	760. 4
Africa	2. 5	0.2	20.1	68. 6	50. 5	84.3
Algeria Cameroon Ethiopia Federation of Rhodesia and Nyasa-	0 9	(2) 1.4 .6	(3) . 9	(3) .9	(8) .8	(8) 5. 1 1. 1
land	(2) (2) (2) 0 1. 4 (2) (3) (3)	(3) (2) . 9 (3) 1. 7 (3) (3) (3)	5. 6 5. 8 0 5. 8 (2)	0 15. 4 27. 2 8. 5 3. 4 (2) (2)	9.9 20.0 8.6 5.7 .1	0 10,7 14,1 12,2 9,8 .6 6,8
Senegal Su dan Togo	0 2	(3)	(8) 5.4 (2) 3.3	9.3	10.4	13.6 .2 4.1
Tunisia	21.5	118.3	106.1	180. 4	250. 2	357.7
Afghanistan Burma Cambodia Coylon India Indonesia Malaya Nepal Pakistan Thalland	13.6 .2 0 7.3 .1 0 (1)	28. 3 1. 5 1. 3 . 6 68. 0 15. 8 . 9 (*)	32. 0 1. 8 2. 1 1. 0 47. 1 16. 2 2. 1 (8) 2. 4 1. 4	39. 4 3. 9 1. 6 1. 8 95. 4 31. 3 2. 0 . 3 3. 0 1. 7	39. 4 5. 9 2. 2 10.1 124. 8 58. 6 2. 3 . 8 5. 1 1. 0	44.9 6.7 3.2 19.2 221.9 49.9 3.1 1.1 6.2
Europe	10.3	16. 2	16.1	11.2	9.2	24.7
IcelandPortugalSpain	10. 3 0 0	12. 0 1. 3 2. 9	10.6 2.2 3.3	9.3 (8) 1.9	8.0 (³)	(3) 14.9
Latin America	24, 3	27. 5	32, 0	29.6	38. 4	30. 6
Argentina Brazil Cuba Mexico Peru Uruguay	24, 0 (2) 0 (2) (2) (2)	16.8 1.0 (2) .4 (3) 9.3	14. 0 15. 8 (1) . 8 0 1. 4	10, 5 18, 4 (1) .1 0	8. 0 30. 1 (¹) .1 (²) .2	(1) (2) (2) (2)
Middle East	53. 4	172. 2	162. 7	217. 6	211. 2	263. 2
Cyprus Grecco Iran Iraq Israel Lebanon Libya Syria Turkey United Arab Republic Yemen	4. 3 22. 4 (2) 6. 7 1. 3 0 . 3 7. 4	(3) 16. 0 18. 0 23. 3 (3) 3. 3 0 15. 1 5. 6 88. 0 2. 9	30. 20. 2 (8) 4. 3 1. 0 11. 0 8. 2 70. 0 3. 6	1, 4 21, 1 18, 1 37, 3 (3) 4, 7 1, 4 17, 0 5, 8 108, 7 2, 1	1. 1 20. 7 16. 1 52. 0 (8) 4. 3 1. 9 5. 2 4. 3 103. 3 2. 3	1. 8 26. 23. 43. (3) 43. (3) 4. 2. 13. 8. 135. 3.

¹ Exports are valued f.o.b. Because of rounding, components may not add to the totals shown. Excludes Yugoslavia for all years and Cuba for 1960-63. Exports to Cuba and Yugoslavia were as follows (in millions of current U.S. dollars): To Cuba: 1990, 70.8; 1991, 287.0; 1902, 366.8: 1963, 399.8. To Yugoslavia: 1955, 16.4; 1959, 46.2; 1960, 55.1; 1961, 35.9; 1902, 72.3; 1963, 06.3.

² Less than 50,000 rubles.

³ Not reported.

Source: Official Soviet foreign trade publications.

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Table XIII-15.—U.S.S.R., imports of chemical plants and equipment, 1955-63
[In thousands of rubles]

	1955	1956	1957	1958	1959	1960	1961	1962	1963
	22, 133	19, 296	22,088	45, 531	103, 784	168, 242	173, 746	143, 025	201, 023
	6	10 18 6 224 14 14 98 10,219 7,950 849	203 196 2, 227 121 1, 216 1, 607 1 1, 106 70 10, 170 4, 223 1, 018	5, 657 18 4, 947 3, 387 1, 984 1, 372 217 56 15, 849 10, 821 1, 329	30, 147 6, 012 20, 008 6, 494 2, 581 1, 317 1, 496 1, 039 962 32 17, 959 13, 241 2, 523	35, 263 20, 557 37, 398 15, 897 2, 635 3, 459 361 433 1, 949 3, 643 20 16, 720 22, 825 4, 376	37, 194 25, 307 18, 693 16, 564 417 2, 970 456 1, 924 335 6, 818 7, 619 27 16, 126 26, 153 5, 116	15, 958 12, 951 7, 667 16, 300 1, 846 1, 107 610 16, 012 124 2, 848 3, 811 38 20, 096 29, 908 4, 992	27, 248 26, 059 17, 138 11, 945 327 2, 937 728 16, 434 38 21, 219 49, 990 5, 311

Source: Vneshnyaya Torgovlya, 1959, 1951, 1963 (Moscow).

Table XIII-16.—Total Soviet economic credits and grants extended to non-Communist underdeveloped countries, Jan. 1, 1954, to Dec. 31, 1964

[In millions of current U.S. dollars]

	Cumu- lative, 195.4-64		Cumu- lative, 1954–64
Total	4, 183	Asia—Continued	
Africa	758	Burma Cambodia Ceylon	21
Algeria	229	India	1 011
Congo (Brazzaville)	9	Indonesia	369
Ethiopia	102	Nepal	10
Ghana	89	Pakistan	44
Guinea	70	D 7	
Kenya Mali	$\frac{44}{55}$	Europe: Iceland	3
Senegal	33 7	Latin America: Argentina	100
Somali Republic	57	matti America. Argentina	100
Sudan	22	Middle East	1 282
Tunisia	28		1,202
Uganda	16	Iran	39
United Republic of Tan-		Iraq	184
zania	30	Syrian Arab Republic	150
		Turkey	10
Asia	2, 040	United Arab Republic	
Afghanistan	541	(Egypt) Yemen	$\begin{array}{c} 833 \\ 66 \end{array}$
			00

¹ Data for 1964 are preliminary; actual drawings under these credits and grants during this period are estimated at approximately \$1,500,000,000.

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CHAPTER XIV

ECONOMIC INDICATORS FOR THE SOVIET BLOC

Table XIV-1.—Gross national product of the Sino-Soviet bloc, 1960-63 ¹ [In billions of dollars]

Country	1960	1961	1962	1963
Sino-Soviet bloc	413	418	436	460
European Soviot blocAsian Soviet bloc	322 91	336 82	353 83	372 88

¹ At market prices converted at purchasing power equivalents.

Sources: Department of State intelligence reports. "Indicators of Economic Strength of Selected Free World Countries Compared With Communist Countries."

Table XIV-2.—Intrabloc trade as percentage of total trade, by countries of the Sino-Soviet bloc, 1963

	Exports	Imports
Albania Bulgaria Czechoslovakia Hungary Poland Soviet Zone of Germany U.S.S.R. Communist China Mongolia North Korea North Korea North Korea North Korea North Korea North Cothan Mongolia North Korea North Votnam North Cothan Mongolia North Korea North Votnam Mongolia North Mongoli	1 48. 0	NA 80, 5 69, 3 NA 64, 4 66, 4 74, 8 67, 1 1 36, 6 NA 1 95, 0

¹ Estimated.

Note.—NA indicates data not available.

Source: Official foreign trade statistics of Soviet bloc countries.

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Table XIV-3.—Area sown to principal crops in Sino-Soviet bloc countries, 1963

	North Vietnam	N N	ZZZZ	NNAN	NA	ZZZZZ	NA
	North Korea	2	NZZZ AAAA	NAN	NA	VZZZZ	NA A
	Mon- golia	N.	ANNA	NA NA	NA	NNNN	NA
	Ccm- munist Ohina	Z	AAAA	AZ	NA	NNNNN	NA
•	Asian- Soviet bloc, total	NA	NNNN	NN AA	NA	NNNN	NA
	U.S.B.R.2	133,800	64, 600 15, 000 5, 700 100	8, 500 59, 300	14, 900	2,480 1,460 3,4390 NA	216, 500
	Soviet zone of Ger- many	2,247	429 821 821 NA	1,347	NA	NA NA 246 5	NA
ectares	Rumania	6, 700	2,874 80 3,371 NA	319	843	NA AA 178 NA	9, 265
In thousands of hectares]	Poland	8, 735	1, 542 4, 383 1, 682 Neg.	2,840 2,101	799	NA NA 372 34	14, 475
[In tho	Jinigary	\$ 3, 125	976 209 1, 289 19	232 3 725	3 295	NA 121 118 20	4,377
	Czecho- slovakia	3 2, 618	688 420 216 Neg.	31,525	3 403	3.48 3.3 243 6	5,062
	Bulgaria	3 1, 425	1,300 60 700 NA	31,112	\$ 570	NA NA 250 70	3,147
	Albania	NA	NNN NAAA	ZZ A	NA	NNNN NAA NAA	NA
	European Soviet bloc, total 1	158,650	72, 409 20, 973 12, 961	13, 198 67, 513	4 17, 810	6 5, 229 4, 977 6 182	261, 201
	Sino- Soviet bloc, total	NA	ZZZZ	NA NA	NA S	NNNNN	NA
		Grain crops, total	Wheat Rye. Corn. Rice	Potatoes	Total	Flax. Sunflower seeds. Sugarbeets. Tobacco.	Total

* U.S. Department of Commerce estimate.

* Excludes Soriet zone of Germany.

* Excludes Poland and Soviet zone of Germany.

* Excludes Rumania and the U.S.S.R.

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Table XIV-4.—Harvest of selected crops in Sino-Soviet bloc countries, 1963 In thousands of metric tons

									-	-	-	-		
Sino-Soviet bloc	Euro- pean Soviet bloc 1	Albania	Bulgaria	Czecho- slovakia	Hungary	Poland	Rumania	Soviet zone of Germany	U.S.S.R.2	Asian- Soviet bloc, total	Com- munist China	Mongolia	North Korea	North Vietnam
Grain crops. Wheat. Rye. Corn. Corn. Rice. Potatoes. Vegetables. Cotton. Flax. Sunflower seeds. Sugarbeets (for pressing).	55,034 21,604 5.21,514 136,686 5.4,931 74,792	A444444444AXXXXXXXXXXXXXXXXXXXXXXXXXXX	N N 1,600 1,600 1,500 1,530 1,530 1,530 1,530 1,000 1,	NA 1,746 874 874 874 874 8,392 NA NA NA NA NA NA NA NA NA NA NA NA NA	A N L 2528 2128	3, 100 7, 100 7, 100 8, 100 A N A N A N A N A N A N A N A N A N A N	10, 37, 12, 12, 13, 13, 13, 13, 13, 13, 13, 13, 13, 13	5,536 1,675 1,675 1,675 3 NA 12,886 174 NA 5,176 6,176	AA 40,000 11,700 9,800 8,800 8,800 1,770 1,770 1,770 4,000 4,000 AN AN AN AN AN AN AN AN AN AN	4444444444 XXXXXXXXXX	4444444444 NXNNNNNXXXX	444444444 XXXXXXXXXXX	AAAAAAAAAAA XXXXXXXXXXXXXXXXXXXXXXXXXX	ZZZZNZNZZZZ ZZZZNZNZZZZ ZZZZZZZZZZZZZZ
	100						5 Excludes Czechoslovakia, Poland.	Zechoslov	akia, Polan		Soviet zor	and the Soviet zone of Germany	any.	

Sources: Official statistics of the Sino-Soviet bloc countries: U.S. Department of Agriculture publications.

NA indicates data not available.

1 Totals do not include Albania.

2 U.S. Department of Agriculture estimates.

3 Excludes Poland.

4 Negligible.

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Table XIV-5.—Sino-Soviet intrabloc trade, 1963 [In millions of dollars]

							Importin	Importing country							
Exporting country	Sino- Soviet bloc, total 1	European Soviet bloc, total 1	Albania	Bulgaria	Czecho- slovakia	Hungary	Poland	Rumania	Soviet zone of Germany	C.S.S.R.	Asian- Soviet bloc, total	Com- munist China	Mon- golis	North Korea	North Viet- nam
Sino-Soviet bloc, total	NA	11,719	NA	747	1, 502	850	1,290	619	1,910	4, 719	NA	NA	ŇÀ	ÄÄ	NA
European Soviet bloc, total	11, 544	11,015	22	740	1, 487	820	1,255	654	1,876	4, 131	1.2 529	12 223	131	1 99	1 76
Albania Bulgaria Czechoslovakia Hungary	NA 666 1,734	17. 661 1,778	10	2 80 18	7 70	16 153	33 196 76	101 34	222 222 95	(3) 446 956 956	NA 5 16	NA 1	NA 1	Z Ages	NA 19
Foland Rumania. Soviet zone of Germany U.S.S. R.	1, 620 620 620 630 630 630 630 630	1, 042 894 1, 042 1, 042 1, 163	10 Cl 4	492 492 492	145 55 229 849	78 122 443	33 250 663	399	120 42 1.314	617 413 1, 276	2823	11 14 10 187	114 114	4448	7. 4.79
Asian-Soviet bloc, total	NA	704	NA	7	15		35	25	34	288	NA	NA	NA	NA	NA
Communist China Mongolia North Korea	Z CZ Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z	2 479 66 107 52	AN EEE	00-00	(B)		15 to 4 to	41 1 9 4	က်လေလေ	413 88 88 88 88	NA NA NA NA	NNN	NA NA NA	NA NA NA	NNNN
¹ Excluding Albania. ² Estimated. ⁸ Negligible.						Ζŭ	A indicate	NA indicates data not available. Sources: Official foreign trade statistics of Soviet bloc countries.	available. n trade sta	tistics of s	Soviet bl	oe countr	ies.		

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Table XIV-6.—Production of selected basic commodities in Sino-Soviet bloc countries, 1963

Commodities	Albania	Bulgaria	Czecho- slovakia	Ger- many: Soviet zone	Hungary	Poland	Rumania U.S.S.R.	U.S.S.R.	European Soviet bloc, total 1	Communist China	Mon- golia	North Korea	North Viet- nam	Asian- Soviet bloc, total	Sino- Soviet bloc, total
Electric power, million kilowatt-hours. Coal, million metric tons. Oll, thousand metric fons. Cennent, thousand metric fons. Pig fron, thousand metric fons.	NZZZZZZ	7,176 21 21 174 2,208 5,208 461	29, 861 101 NA 5, 178 5, 254 7, 598	47,450 2,150 5,458 2,150 3,626	9,660 30 1,752 1,800 1,404 2,376	37,000 128 212 7,670 5,395 8,004	11, 682 10, 233 4, 369 1, 706 2, 704	412,000 532 206,100 61,000 58,700 80,200	534, 829 222, 621 87, 683 74, 874 104, 969	31, 000 210 6,000 NA NA 8,000	SESZZS AA	EEEZZE	SESZZE A A	43, 231 6,000 8,000 1,000 9,000	597, 829 1, 051 228, 621 NA NA 113, 969

NA indicates data not available.

1 Total excitodes Albania.
2 Production of Mongolia, North Korea, and North Vietnam combined equals 12,000,000,000 tiowatt-hours.
3 Production of Mongolia, North Korea, and North Vietnam combined equals 21,000,000 metric tons.

 Insignificant.
 Includes ferroalloys.
 Production of Mongolia, North Korea, and North Vietnam combined equals 1,000,000 metric tons. Sources: Official sources of the Soviet bloc countries; U.N. statistical sources; U.S. Department of State intelligence reports.

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NA NA<	Commodities	lbania	Albenia Bulgaria	Czecho- slovakia	Ger- many: Soviet zone	Hungary	Poland	Rumania U.S.S.R.	U.S.S.R.	European Soviet bloc, total	Commun- nist China	Mon- golia	North Korea	North Viet- nam	Asian- Soviet bloc, total	Soviet Boviet bloc, total
NA NA AB 15 4 37 360 NA NA NA NA 16 4 37 360 NA NA<	Automotive vehicles (thousand units)	IN.	₹	5.83	34	6269	13.83	82	50.50	823 2 403	NN	NNA	NN 44	NA NA	NN	
NA	sand units)	Ž,	NA	NA	೧೨	NA	16	≼h	37	3 60	NA.	NA	NA	NA	NA	
NA	(thousand units)	NA	6.0	27	55	00	30	is.	712	325	NA	NA	NA	NA	NA	-
NA 172 357 536 900 601 185 19,900 22,651 NA 11,622 NA NA <td>units)</td> <td>NA</td> <td>NA</td> <td>43</td> <td>833</td> <td>NA</td> <td>24</td> <td>6</td> <td>466</td> <td>4 575</td> <td>NA</td> <td>NA</td> <td>NA</td> <td>NA</td> <td>NA</td> <td>-</td>	units)	NA	NA	43	833	NA	24	6	466	4 575	NA	NA	NA	NA	NA	-
NA NA NA 234 NA 218 74 2,602 3,128 NA NA NA NA 250 467 2263 696 3301 6,617 8,880 NA NA NA NA NA 13 45 54 24 96 623 6,667 718 NA NA NA NA	tons) Refrigerators (thousand units)	Z.X.A	172 17	357 221	536 245	900 30	601	185	19,900	22, 651 1, 622	NAN	NN AA	NA NA	ZZ AA	NA	
NA 250 467 54 54 54 96 530 6,617 8,880 NA	units)	NA	NA	NA	234	NA	218	74	2,602	33,128	NA	NA	N.A.	NA	NA	
	ning meters)	NAN	250	467	5 267 54	5 283	695 96	5 301 6 23	6,617	8,880	NAA	NA	NA NA	NA	NA	

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SELECTED BIBLIOGRAPHY OF RECENT SOVIET MONOGRAPHS

This bibliography is limited primarily to monographs which have been received by the Foreign Demographic Analysis Division, U.S. Bureau of the Census, in the fields of Soviet economics, labor force, and population. With several exceptions, the selection is restricted to those monographs which have appeared since 1959. Entries marked with an asterisk (*) have been added to the original bibliography appearing in Joint Economic Committee, Dimensions of Soviet Economic Power, 1962, pages 671–688 and the subsequent committee report, Annual Economic Indicators for the U.S.S.R., 1964, pages 145–171. Relatively few purely technical books are included, and statistical handbooks are omitted entirely.

The bibliography is arranged according to subject and branch of the national economy. The subject listing is in alphabetical order, whereas the branch listing approximates the sequence used in Soviet statistical handbooks. Each entry appears only once in either the subject or the branch classification. A list of cross-references has been added at the end of each classification group. The arrangement within the subject listing and the branch listing is as follows:

SUBJECT LISTING

Background Capital Investment Communist Party Cooperatives Cost of Production Economy—General Geography, Urbanization, Location of Industry Input-Output International Comparisons Labor Law Level of Living National Income, State Budget, Taxes Planning Population and Vital Statistics Prices Regional Economy Social Insurance, Social Security Statistics, Accounting, Mechanized Data Processing Trade Unions Wages

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BRANCH LISTING
Industry-General
           Electric Power
            Fuels
           Metallurgy
Machine-Building and Metalworking
            Chemical
           Construction Materials
           Logging, Woodworking, and Paper
Light
           Food
Construction Agriculture
Forestry
Transportation—General
                  Railroad
                  Automotive
                  Sea
                  River
                  Air
Communications
Trade and Material-Technical Supply
Housing-Communal Economy
Public Health
Education
Science and Scientific Services
Banking
Government
Armed Forces
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Other

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Subject Listing

BACKGROUND

- - 597, 601, 626, 636.)

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APPENDIX

PRELIMINARY REPORT ON THE PERFORMANCE OF THE ECONOMY OF THE U.S.S.R. IN 1964

Note: Detailed official statistical data on the national economy for each given year are usually published in the U.S.R. during the late months of the subsequent year in the annual volume titled Narodnoe khoziaistvo v * * * godu. Prior to that date, however, the Soviet Government regularly publishes in the central press a brief official communication containing a summary of selected economic data and production figures designed to provide a preliminary report on the state of the national economy during the preceding year.

The following four tables are based on the latest official communication in this series which appeared in Pravda January 30, 1965, under the heading: "On the Results of the Fulfillment of the State Plan for the Development of the National Economy of the U.S.S.R. in 1964."

Table A-1.—Industry

Commodity	Unit	1963	1964	1964 as percent
				of 1963
Electric power	do	412. 0 80. 2 137. 0 206. 0 532. 0 81. 0 253. 0 2. 9	459. 0 85. 0 146. 0 224. 0 554. 0 64. 0 260. 0 3. 0	111 106 106 109 104 106 103 108
Turbines Machino tools, metal-cutting Machine tools, metal-forming Metallurgical equipment Potroleum equipment Chemical equipment Woaving looms Autos and trucks Tractors Farm machinery Excavators	Million kilowatt-hours. Thousand units. do Thousand motric tons. do Million rubles. Thousand units. do do Million rubles. Thousand units.	11. 0 183. 0 33. 8 236. 0 115. 0 287. 0 24. 1 587. 0 325. 0 1,371. 0	13. 2 184. 0 34. 2 232. 0 140. 0 342. 0 24. 6 603. 0 329. 0 1, 391. 0 20. 2	111 101 100 98 122 119 102 103 101 101
Fertilizers, mineral	d0	19. 9 308. 0 1, 049. 0 2, 500. 0 6, 887. 0 22. 6	25. 6 361. 0 1, 153. 0 2, 700. 0 7, 647. 0 24. 4	128 117 110 108 111 108
Fabrics: Cotton Wool Linett Silk Shoes, leather Watches and clocks Radio sots Television sets Refrigerators Washing machines	do	5,089.0 471.0 509.0 801.0 463.0 27.1 4.8 2.5 911.0 2,300.0	5, 368. 0 471. 0 544. 0 827. 0 474. 0 28. 7 4. 8 2. 0 1, 134. 0 2, 900. 0	106 100 107 103 103 106 99 118 125
Meat, slaughtered weight. Factory produced only. Fish eatch Butter. Cheese Whole milk products. Granulated sugar, beet. Vegotable oils. Soap. Canned goods.	do	10. 2 5. 4 4. 7 874. 0 222. 0 9. 5 5. 5 2. 1 1. 8 6. 4	8.1 4.2 5.2 952.0 256.0 10.4 7.0 2.2 1.9 7.4	80 77 111 108 118 109 127 102 104 114